Avery Weigh-Tronix

ZM305 GTN Inbound-Outbound

Indicator

User Instructions

AWT35-501250
Issue AE

Table of Contents

1 General information and warnings

1.1 About this manual

This manual is divided into chapters by the chapter number and the large text at the top of a page. Subsections are labeled as shown by the 1.1 and 1.1.1 headings. The names of the chapter and the next subsection level appear at the top of alternating pages of the manual to remind you of where you are in the manual. The manual name and page numbers appear at the bottom of the pages.

1.1.1 Text conventions

Key names are shown in **bold** and reflect the case of the key being described. If a key has a dual function it may be referred to by its alternate function.

Displayed messages appear in ***bold italic*** type and reflect the case of the displayed message.

Annunciator names appear as *italic* text and reflect the case of the annunciator.

1.1.2 Special messages

Examples of special messages you will see in this manual are defined below. The signal words have specific meanings to alert you to additional information or the relative level of hazard.

CAUTION!
This is a Caution symbol.
Cautions give information about procedures that, if not observed, could result in damage to equipment or corruption to and loss of data.

NOTE: This is a Note symbol. Notes give additional and important information, hints and tips that help you to use your product.

1.2 Installation

NO USER SERVICEABLE PARTS. REFER TO QUALIFIED SERVICE PERSONNEL FOR SERVICE.

1.2.1 Safe handling of equipment with batteries

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

ATTENTION: Il y a danger d'explosion s'il y a remplacement incorrect de la batterie, remplacer uniquement avec une batterie du même type ou d'un type équivalent recommandé par le constructeur. Mettre au rebut les batteries usagées conformément aux instructions du fabricant.

1.2.2 Wet conditions

Under wet conditions, the plug must be connected to the final branch circuit via an appropriate socket / receptacle designed for washdown use.

Installations within the USA should use a cover that meets NEMA 3R specifications as required by the National Electrical Code under section 410-57. This allows the unit to be plugged in with a rain tight cover fitted over the plug.

Installations within Europe must use a socket which provides a minimum of IP56 protection to the plug / cable assembly. Care must be taken to make sure that the degree of protection provided by the socket is suitable for the environment.

1.3 Routine maintenance

IMPORTANT: This equipment must be routinely checked for proper operation and calibration.
Application and usage will determine the frequency of calibration required for safe operation.

Always isolate the indicator from the power supply before starting any routine maintenance to avoid the possibility of electric shock.

1.4 Cleaning the machine

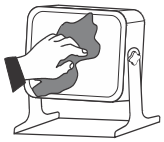


Table 1.1 Cleaning DOs and DON'Ts

DO	DO NOT
Wipe down the outside of standard products with a clean cloth, moistened with water and a small amount of mild detergent	Attempt to clean the inside of the machine
	Use harsh abrasives, solvents, scouring cleaners or alkaline cleaning solutions
Spray the cloth when using a proprietary cleaning fluid	Spray any liquid directly on to the display windows

1.5 Training

Do not attempt to operate or complete any procedure on a machine unless you have received the appropriate training or read the instruction books.

To avoid the risk of RSI (Repetitive Strain Injury), place the machine on a surface which is ergonomically satisfactory to the user. Take frequent breaks during prolonged usage.

1.6 Sharp objects

Do not use sharp objects such as screwdrivers or long fingernails to operate the keys.

1.7 FCC and EMC declarations of compliance

United States

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Canada

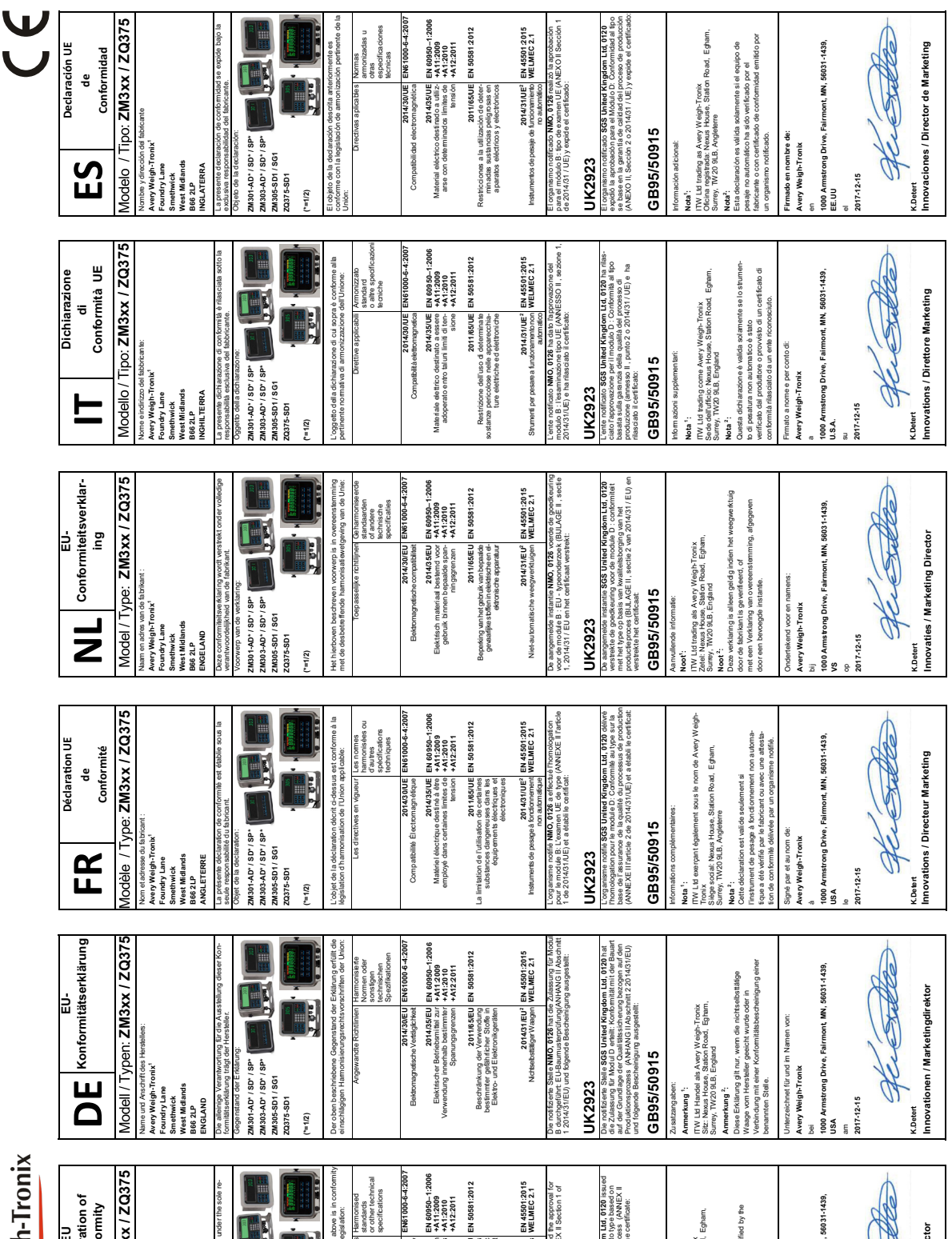
This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la Classe A prescrites dans le Règlement sur le brouillage radioélectrique edicté par le ministère des Communications du Canada.

European Countries

WARNING: This is a Class A product. In a domestic environment, this product may cause radio interference in which the user may be required to take adequate measures.

1.8 Declarations of Conformity



Avery Weigh-Tronix

EN — EU Declaration of Conformity

Model / Type: **ZM3xx / ZQ375**

Name and address of the manufacturer:
Avery Weigh-Tronix[1]
Foundry Lane
Smethwick
West Midlands
B66 2LP
ENGLAND

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Object of the declaration:
ZM301-AD* / SD* / SP*
ZM303-AD* / SD* / SP*
ZM305-SD1 / SG1
ZQ375-SD1
(*=1/2)

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

Applicable Directives	Harmonised standards or other technical specifications	
2014/30/EU Electromagnetic Compatibility	EN61000-6-4:2007	
2014/35/EU Electrical equipment designed for use within certain voltage limits	EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011	
2011/65/EU Restriction of the use of certain hazardous substances in electrical and electronic equipment	EN 50581:2012	
2014/31/EU[2] Non-Automatic Weighing Instruments	EN 45501:2015 WELMEC 2.1	

The notified body **NMO, 0126** performed the approval for module B: EU-type examination (ANNEX II Section 1 of 2014/31/EU) and issued the certificate:

UK2923

The notified body **SGS United Kingdom Ltd, 0120** issued the approval for module D: Conformity to type based on quality assurance of the production process (ANNEX II Section 2 of 2014/31/EU) and issued the certificate:

GB95/50915

Additional information:
Note [1]:
ITW Ltd trading as Avery Weigh-Tronix
Site address: Nexus House, Station Road, Egham, Surrey, TW20 9LB, England
Note [2]:
This declaration is only valid if the non-automatic weighing instrument was verified by the manufacturer or with a certificate of conformity issued by a notified body.

Signed for and on behalf of:
Avery Weigh-Tronix
at
1000 Armstrong Drive, Fairmont, MN, 56031-1439, USA
on
2017-12-15

K.Detert
Innovations/Marketing Director

DE — EU-Konformitätserklärung

Modell / Typen: **ZM3xx / ZQ375**

Name und Anschrift des Herstellers:
Avery Weigh-Tronix[1]
Foundry Lane
Smethwick
West Midlands
B66 2LP
ENGLAND

Die alleinige Verantwortung für die Ausstellung dieser Konformitätserklärung trägt der Hersteller.

Gegenstand der Erklärung:
ZM301-AD* / SD* / SP*
ZM303-AD* / SD* / SP*
ZM305-SD1 / SG1
ZQ375-SD1
(*=1/2)

Der oben beschriebene Gegenstand der Erklärung erfüllt die einschlägigen Harmonisierungsvorschriften der Union:

Angewandte Richtlinien	Harmonisierte Normen oder sonstigen technischen Spezifikationen	
2014/30/EU Elektromagnetische Verträglichkeit	EN61000-6-4:2007	
2014/35/EU Elektrischer Betriebsmittel zur Verwendung innerhalb bestimmter Spannungsgrenzen	EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011	
2011/65/EU Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten	EN 50581:2012	
2014/31/EU[2] Nichtselbsttätige Waagen	EN 45501:2015 WELMEC 2.1	

Die notifizierte Stelle **NMO, 0126** hat die Zulassung für Modul B (Baumusterprüfung) ANHANG II Abschnitt 1 der 2014/31/EU) und Angabe Bescheinigung ausgestellt:

UK2923

Die notifizierte Stelle **SGS United Kingdom Ltd, 0120** stellte die Zulassung für Modul D: Konformität mit der Bauart auf der Grundlage der Qualitätssicherung bezogen auf den Produktionsprozess (ANHANG II Abschnitt 2 2014/31/EU) und folgende Bescheinigung ausgestellt:

GB95/50915

Zusatzangaben:
Anmerkung [1]:
ITW Ltd Handel als Avery Weigh-Tronix
Sitz: Nexus House, Station Road, Egham, Surrey, TW20 9LB, England
Anmerkung [2]:
Diese Erklärung gilt nur, wenn die nichtselbsttätige Waage vom Hersteller geeicht wurde oder in Verbindung mit einer Konformitätsbescheinigung einer benannten Stelle.

Unterzeichnet für und im Namen von:
Avery Weigh-Tronix
bei
1000 Armstrong Drive, Fairmont, MN, 56031-1439, USA
am
2017-12-15

K.Detert
Innovationen / Marketingdirektor

FR — Déclaration UE de Conformité

Modèle / Type: **ZM3xx / ZQ375**

Nom et adresse du fabricant :
Avery Weigh-Tronix[1]
Foundry Lane
Smethwick
West Midlands
B66 2LP
ANGLETERRE

La présente déclaration de conformité est établie sous la seule responsabilité du fabricant.

Objet de la déclaration:
ZM301-AD* / SD* / SP*
ZM303-AD* / SD* / SP*
ZM305-SD1 / SG1
ZQ375-SD1
(*=1/2)

L'objet de la déclaration décrit ci-dessus est conforme à la législation d'harmonisation de l'Union applicable :

Les directives en vigueur	Les normes harmonisées ou d'autres spécifications techniques	
2014/30/UE Compatibilité Électromagnétique	EN61000-6-4:2007	
2014/35/UE Matériel électrique destiné à être employé dans certaines limites de tension	EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011	
2011/65/UE La limitation de l'utilisation de certaines substances dangereuses dans les équipements électriques et électroniques	EN 50581:2012	
2014/31/UE[2] Instruments de pesage à fonctionnement non automatique	EN 45501:2015 WELMEC 2.1	

L'organisme notifié **NMO, 0126** a effectué l'homologation pour le module B : L'examen UE de type (ANNEXE II article 1, 2014/31/UE) et a établi le certificat:

UK2923

L'organisme notifié **SGS United Kingdom Ltd, 0120** délivre l'homologation pour le module D : Conformité au type basé sur l'assurance de la qualité du processus de production (ANNEXE II l'article 2 de 2014/31/UE) et a établi le certificat:

GB95/50915

Informations complémentaires:
Nota [1]:
ITW Ltd exerçant également sous le nom de Avery Weigh-Tronix
Siège social: Nexus House, Station Road, Egham, Surrey, TW20 9LB, Angleterre
Nota [2]:
Cette déclaration est valide seulement si l'instrument de pesage à fonctionnement non automatique a été vérifié par le fabricant ou avec une attestation de conformité délivrée par un organisme notifié.

Signé par et au nom de:
Avery Weigh-Tronix
à
1000 Armstrong Drive, Fairmont, MN, 56031-1439, USA
le
2017-12-15

K.Detert
Innovations / Directeur Marketing

NL — EU-Conformiteitsverklaring

Model / Type: **ZM3xx / ZQ375**

Naam en adres van de fabrikant :
Avery Weigh-Tronix[1]
Foundry Lane
Smethwick
West Midlands
B66 2LP
ENGELAND

Deze conformiteitsverklaring wordt verstrekt onder volledige verantwoordelijkheid van de fabrikant.

Voorwerp van de verklaring:
ZM301-AD* / SD* / SP*
ZM303-AD* / SD* / SP*
ZM305-SD1 / SG1
ZQ375-SD1
(*=1/2)

Het hierboven beschreven voorwerp is in overeenstemming met de desbetreffende harmonisatiewetgeving van de Unie:

Toepasselijke richtlijnen	Geharmoniseerde normen of andere technische specificaties	
2014/30/EU Elektromagnetische compatibiliteit	EN61000-6-4:2007	
2014/35/EU Elektrisch materiaal bestemd voor gebruik binnen bepaalde spanningsgrenzen	EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011	
2011/65/EU Beperking van het gebruik van bepaalde gevaarlijke stoffen in elektrische en elektronische apparatuur	EN 50581:2012	
2014/31/EU[2] Niet-automatische weegwerktuigen	EN 45501:2015 WELMEC 2.1	

De aangemelde instantie **NMO, 0126** voerde de goedkeuring voor de module B : EU - typeonderzoek (BIJLAGE II , sectie 1, 2014/31 / EU) en het certificaat verstrekt:

UK2923

De aangemelde instantie **SGS United Kingdom Ltd, 0120** heeft de goedkeuring voor module D: Conformiteit met het type op basis van kwaliteitsborging van het productieproces (BIJLAGE II , sectie 2 van 2014/31 / EU) en verstrekte het certificaat:

GB95/50915

Aanvullende informatie:
Noot [1]:
ITW Ltd trading als Avery Weigh-Tronix
Zetel: Nexus House, Station Road, Egham, Surrey, TW20 9LB, England
Noot [2]:
Deze verklaring is alleen geldig indien het weegwerktuig door de fabrikant is geverifieerd, of met een Verklaring van overeenstemming, afgegeven door een bevoegde instantie.

Ondertekend voor en namens:
Avery Weigh-Tronix
bij
1000 Armstrong Drive, Fairmont, MN, 56031-1439, VS
op
2017-12-15

K.Detert
Innovaties / Marketing Director

IT — Dichiarazione di Conformità UE

Modello / Tipo: **ZM3xx / ZQ375**

Nome e indirizzo del fabbricante:
Avery Weigh-Tronix[1]
Foundry Lane
Smethwick
West Midlands
B66 2LP
INGHILTERRA

La presente dichiarazione di conformità è rilasciata sotto la responsabilità esclusiva del fabbricante.

Oggetto della dichiarazione:
ZM301-AD* / SD* / SP*
ZM303-AD* / SD* / SP*
ZM305-SD1 / SG1
ZQ375-SD1
(*=1/2)

L'oggetto della dichiarazione di cui sopra è conforme alla pertinente normativa di armonizzazione dell'Unione:

Direttive applicabili	Standard armonizzati o altre specificazioni tecniche	
2014/30/UE Compatibilità elettromagnetica	EN61000-6-4:2007	
2014/35/UE Materiale elettrico destinato a essere adoperato entro taluni limiti di tensione	EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011	
2011/65/UE Restrizione dell'uso di determinate sostanze pericolose nelle apparecchiature elettriche ed elettroniche	EN 50581:2012	
2014/31/UE[2] Strumenti per pesare a funzionamento non automatico	EN 45501:2015 WELMEC 2.1	

L'ente notificato **NMO, 0126** ha dato l'approvazione del modulo B: l'esaminazione tipo UE (ANNESSO II , sezione 1, 2014/31/UE) e ha rilasciato il certificato:

UK2923

L'ente notificato **SGS United Kingdom Ltd, 0120** ha rilasciato l'approvazione per il modulo D: Conformità al tipo basata sulla garanzia della qualità del processo di produzione (annesso II , punto 2 o 2014/31 / UE) e ha rilasciato il certificato:

GB95/50915

Informazioni supplementari:
Nota [1]:
ITW Ltd trading come Avery Weigh-Tronix
Sede dell'ufficio: Nexus House, Station Road, Egham, Surrey, TW20 9LB, England
Nota [2]:
Questa dichiarazione è valida solamente se lo strumento di pesatura non automatico è stato verificato dal produttore o provvisto di un certificato di conformità rilasciato da un ente riconosciuto.

Firmato a nome e per conto di:
Avery Weigh-Tronix
a
1000 Armstrong Drive, Fairmont, MN, 56031-1439, U.S.A.
su
2017-12-15

K.Detert
Innovations / Direttore Marketing

ES — Declaración UE de Conformidad

Modelo / Tipo: **ZM3xx / ZQ375**

Nombre y dirección del fabricante
Avery Weigh-Tronix[1]
Foundry Lane
Smethwick
West Midlands
B66 2LP
INGLATERRA

La presente declaración de conformidad se expide bajo la exclusiva responsabilidad del fabricante.

Objeto de la declaración:
ZM301-AD* / SD* / SP*
ZM303-AD* / SD* / SP*
ZM305-SD1 / SG1
ZQ375-SD1
(*=1/2)

El objeto de la declaración descrita anteriormente es conforme con la legislación de armonización pertinente de la Unión:

Directivas aplicables	Normas armonizadas u otras especificaciones técnicas	
2014/30/UE Compatibilidad electromagnética	EN61000-6-4:2007	
2014/35/UE Material eléctrico destinado a utilizarse con determinados límites de tensión	EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011	
2011/65/UE Restricciones a la utilización de determinadas sustancias peligrosas en aparatos eléctricos y electrónicos	EN 50581:2012	
2014/31/UE[2] Instrumentos de pesaje de funcionamiento no automático	EN 45501:2015 WELMEC 2.1	

El organismo notificado **NMO, 0126** realizó la aprobación para el módulo B: tipo de examen UE (ANEXO II Sección 1 de 2014/31 / UE) y expide el certificado:

UK2923

El organismo notificado **SGS United Kingdom Ltd, 0120** realizó la aprobación para el módulo D: Conformidad de tipo basada en la garantía de calidad del proceso de producción (ANEXO II, Sección 2 o 2014/31 / UE) y expide el certificado:

GB95/50915

Información adicional:
Nota [1]:
ITW Ltd trading as Avery Weigh-Tronix
Oficina registrada: Nexus House, Station Road, Egham, Surrey, TW20 9LB, Angleterre
Nota [2]:
Esta declaración es válida solamente si el equipo de pesaje no automático ha sido verificado por el fabricante o con certificado de conformidad emitido por un organismo notificado.

Firmado en nombre de:
Avery Weigh-Tronix
en
1000 Armstrong Drive, Fairmont, MN, 56031-1439, EE.UU
el
2017-12-15

K.Detert
Innovaciones / Director de Marketing

CE

76501-506 Issue 3

Avery Weigh-Tronix

CE

EN — EU Declaration of Conformity

Model / Type: ZM3xx (R61)

Name and address of the manufacturer:
Avery Weigh-Tronix[1]
Foundry Lane
Smethwick
West Midlands
B66 2LP
ENGLAND

This declaration of conformity is issued under the sole responsibility of the manufacturer

Object of the declaration:
ZM301-AD* / SD* / SP*
ZM303-AD* / SD* / SP*
ZM305-SD1
(*=1/2)

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

Applicable Directives	Harmonised standards or other technical specifications
2014/30/EU Electromagnetic Compatibility	**EN61000-6-4:2007**
2014/35/EU Electrical equipment designed for use within certain voltage limits	**EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011**
2011/65/EU Restriction of the use of certain hazardous substances in electrical and electronic equipment	**EN 50581:2012**
2014/32/EU Measuring Instruments	**OIML R61-1:2004 (E)** **WELMEC 2.1** **WELMEC 2.8** **WELMEC 7.2** **WELMEC 8.8**

The notified body **NMO, 0126** performed the approval for module B: EU-type examination (ANNEX II of 2014/32/EU) and issued the certificate:

UK/0126/0122

Additional information:
Note [1]:
ITW Ltd trading as Avery Weigh-Tronix
Reg. Office: Nexus House, Station Road, Egham, Surrey, TW20 9LB, England

Signed for and on behalf of:
Avery Weigh-Tronix
at
1000 Armstrong Drive, Fairmont, MN, 56031-1439, USA
on
2017-06-21

K.Detert
Innovations/Marketing Director

DE — EU-Konformitätserklärung

Modell / Typen: ZM3xx (R61)

Name und Anschrift des Herstellers:
Avery Weigh-Tronix[1]
Foundry Lane
Smethwick
West Midlands
B66 2LP
ENGLAND

Die alleinige Verantwortung für die Ausstellung dieser Konformitätserklärung trägt der Hersteller.

Gegenstand der Erklärung:
ZM301-AD* / SD* / SP*
ZM303-AD* / SD* / SP*
ZM305-SD1
(*=1/2)

Der oben beschriebene Gegenstand der Erklärung erfüllt die einschlägigen Harmonisierungsrechtsvorschriften der Union:

Angewandte Richtlinien	Harmonisierte Normen oder sonstigen technischen Spezifikationen
2014/30/EU Elektromagnetische Verträglichkeit	**EN61000-6-4:2007**
2014/35/EU Elektrischer Betriebsmittel zur Verwendung innerhalb bestimmter Spannungsgrenzen	**EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011**
2011/65/EU Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten	**EN 50581:2012**
2014/32/EU Messgeräten	**OIML R61-1:2004 (E)** **WELMEC 2.1** **WELMEC 2.8** **WELMEC 7.2** **WELMEC 8.8**

Die notifizierte Stelle **NMO, 0126** hat die Zulassung für Modul B durchgeführt: EU-Baumusterprüfung(ANHANG II 2014/32/EU) und folgende Bescheinigung ausgestellt:

UK/0126/0122

Zusatzangaben:
Anmerkung [1]:
ITW Ltd Handel als Avery Weigh-Tronix
Sitz: Nexus House, Station Road, Egham, Surrey, TW20 9LB, England

Unterzeichnet für und im Namen von:
Avery Weigh-Tronix
bei
1000 Armstrong Drive, Fairmont, MN, 56031-1439, USA
am
2017-06-21

K.Detert
Innovationen / Marketingdirektor

FR — Déclaration UE de Conformité

Modèle / Type: ZM3xx (R61)

Nom et adresse du fabricant :
Avery Weigh-Tronix[1]
Foundry Lane
Smethwick
West Midlands
B66 2LP
ANGLETERRE

La présente déclaration de conformité est établie sous la seule responsabilité du fabricant.

Objet de la déclaration:
ZM301-AD* / SD* / SP*
ZM303-AD* / SD* / SP*
ZM305-SD1
(*=1/2)

L'objet de la déclaration décrit ci-dessus est conforme à la législation d'harmonisation de l'Union applicable:

Les directives en vigueur	Les normes harmonisées ou d'autres spécifications techniques
2014/30/UE Compatibilité Électromagnétique	**EN61000-6-4:2007**
2014/35/UE Matériel électrique destiné à être employé dans certaines limites de tension	**EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011**
2011/65/UE La limitation de l'utilisation de certaines substances dangereuses dans les équipements électriques et électroniques	**EN 50581:2012**
2014/32/UE Instruments de mesure	**OIML R61-1:2004 (E)** **WELMEC 2.1** **WELMEC 2.8** **WELMEC 7.2** **WELMEC 8.8**

L'organisme notifié **NMO, 0126** a effectué l'homologation pour le module B : L'examen UE de type (ANNEXE II de 2014/32/UE) et a établi le certificat:

UK/0126/0122

Informations complémentaires:
Nota [1]:
ITW Ltd exerçant également sous le nom de Avery Weigh-Tronix
Siège social: Nexus House, Station Road, Egham, Surrey, TW20 9LB, Angleterre

Signé par et au nom de:
Avery Weigh-Tronix
à
1000 Armstrong Drive, Fairmont, MN, 56031-1439, USA
le
2017-06-21

K.Detert
Innovations / Directeur Marketing

NL — EU-Conformiteitsverklaring

Model / Type: ZM3xx (R61)

Naam en adres van de fabrikant :
Avery Weigh-Tronix[1]
Foundry Lane
Smethwick
West Midlands
B66 2LP
ENGELAND

Deze conformiteitsverklaring wordt verstrekt onder volledige verantwoordelijkheid van de fabrikant.

Voorwerp van de verklaring:
ZM301-AD* / SD* / SP*
ZM303-AD* / SD* / SP*
ZM305-SD1
(*=1/2)

Het hierboven beschreven voorwerp is in overeenstemming met de desbetreffende harmonisatiewetgeving van de Unie:

Toepasselijke richtlijnen	Geharmoniseerde standaarden of andere technische specificaties
2014/30/EU Elektromagnetische compatibiliteit	**EN61000-6-4:2007**
2014/35/EU Elektrisch materiaal bestemd voor gebruik binnen bepaalde spanningsgrenzen	**EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011**
2011/65/EU Beperking van het gebruik van bepaalde gevaarlijke stoffen in elektrische en elektronische apparatuur	**EN 50581:2012**
2014/32/EU Meetinstrumenten	**OIML R61-1:2004 (E)** **WELMEC 2.1** **WELMEC 2.8** **WELMEC 7.2** **WELMEC 8.8**

De aangemelde instantie **NMO, 0126** voerde de goedkeuring voor de module B : EU - typeonderzoek (BIJLAGE II , 2014/32/EU en het certificaat verstrekt:

UK/0126/0122

Aanvullende informatie:
Noot[1]:
ITW Ltd trading als Avery Weigh-Tronix
Zetel: Nexus House, Station Road, Egham, Surrey, TW20 9LB, England

Ondertekend voor en namens:
Avery Weigh-Tronix
bij
1000 Armstrong Drive, Fairmont, MN, 56031-1439, VS
op
2017-06-21

K.Detert
Innovaties / Marketing Director

IT — Dichiarazione di Conformità UE

Modello / Tipo: ZM3xx (R61)

Nome e indirizzo del fabbricante:
Avery Weigh-Tronix[1]
Foundry Lane
Smethwick
West Midlands
B66 2LP
INGHILTERRA

La presente dichiarazione di conformità è rilasciata sotto la responsabilità esclusiva del fabbricante.

Oggetto della dichiarazione:
ZM301-AD* / SD* / SP*
ZM303-AD* / SD* / SP*
ZM305-SD1
(*=1/2)

L'oggetto della dichiarazione di cui sopra è conforme alla pertinente normativa di armonizzazione dell'Unione:

Direttive applicabili	Armonizzato standard o altre specificazioni tecniche
2014/30/UE Compatibilità elettromagnetica	**EN61000-6-4:2007**
2014/35/UE Materiale elettrico destinato a essere adoperato entro taluni limiti di tensione	**EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011**
2011/65/UE Restrizione dell'uso di determinate sostanze pericolose nelle apparecchiature elettriche ed elettroniche	**EN 50581:2012**
2014/32/UE Strumenti di misura	**OIML R61-1:2004 (E)** **WELMEC 2.1** **WELMEC 2.8** **WELMEC 7.2** **WELMEC 8.8**

L'ente notificato **NMO, 0126** ha dato l'approvazione del modulo B : l'esaminazione tipo UE (ANNESSO II , 2014/32/UE) e ha rilasciato il certificato:

UK/0126/0122

Informazioni supplementari:
Nota [1]:
ITW Ltd trading come Avery Weigh-Tronix
Sede dell'ufficio: Nexus House, Station Road, Egham, Surrey, TW20 9LB, England

Firmato a nome e per conto di:
Avery Weigh-Tronix
a
1000 Armstrong Drive, Fairmont, MN, 56031-1439, U.S.A.
su
2017-06-21

K.Detert
Innovations / Direttore Marketing

ES — Declaración UE de Conformidad

Modelo / Tipo: ZM3xx (R61)

Nombre y dirección del fabricante
Avery Weigh-Tronix[1]
Foundry Lane
Smethwick
West Midlands
B66 2LP
INGLATERRA

La presente declaración de conformidad se expide bajo la exclusiva responsabilidad del fabricante.

Objeto de la declaración:
ZM301-AD* / SD* / SP*
ZM303-AD* / SD* / SP*
ZM305-SD1
(*=1/2)

El objeto de la declaración descrita anteriormente es conforme con la legislación de armonización pertinente de la Unión:

Directivas aplicables	Normas armonizadas u otras especificaciones técnicas
2014/30/UE Compatibilidad electromagnética	**EN61000-6-4:2007**
2014/35/UE Material eléctrico destinado a utilizarse con determinados límites de tensión	**EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011**
2011/65/UE Restricciones a la utilización de determinadas sustancias peligrosas en aparatos eléctricos y electrónicos	**EN 50581:2012**
2014/32/UE Instrumentos de medida	**OIML R61-1:2004 (E)** **WELMEC 2.1** **WELMEC 2.8** **WELMEC 7.2** **WELMEC 8.8**

El organismo notificado **NMO, 0126** realizó la aprobación para el módulo B: tipo de examen UE (ANEXO II de 2014/32/UE) y expide el certificado:

UK/0126/0122

Información adicional:
Nota [1]:
ITW Ltd trading as Avery Weigh-Tronix
Oficina registrada: Nexus House, Station Road, Egham, Surrey, TW20 9LB, Angleterre

Firmado en nombre de:
Avery Weigh-Tronix
en
1000 Armstrong Drive, Fairmont, MN, 56031-1439, EE.UU
el
2017-06-21

K.Detert
Innovaciones / Director de Marketing

76501-507 Issue 2

2 Introduction

This manual covers the use of the ZM305 GTN (Gross/Tare/Net) Inbound-Outbound indicator shown in Figure 2.1. The indicator comes in a stainless steel housing with the IBN display for high contrast in indoor or outdoor use.

The indicator is designed to interface with an electronic weigh bridge in a Truck Inbound-Outbound situation. Its purpose is to record inbound and outbound truck weights to calculate net weight value which can be transmitted by a USB port, 2 serial COM ports or an Ethernet port. Analog Output, Current Loop/RS485/RS422, USB Device and Wireless Ethernet 802.11g internal module cards are available options. One module card option can be installed at a time.

Also available is the STVS option for Severe Transient Voltage Suppression.

The ZM305 can connect to USB flash drives, printers, remote displays, computers and other peripheral devices.

The indicator also has three logic level inputs with configurable functions and three set point outputs. See the Specification literature for a full list of specifications.

Figure 2.1 Front panel of the ZM305 Inbound-Outbound indicator

2.1 Front panel

The front panel, shown in Figure 2.1, consists of the keys and display.

Never press a key with anything but your finger. Damage to the overlay may result if sharp or rough objects are used.

2.1.1 Keys

The normal function of the keys on the front panel are listed below.

	Press the **TARE** key to perform a tare function. Also prompts for a keyboard tare, if enabled. Acts as an up arrow key for menu navigation.
	Press the **SELECT** key to toggle between the active display values. Press and hold to enter the setpoint editor. Acts as a down arrow key for menu navigation.
	Press the **PRINT** to send information to a peripheral device through a configured communications port. Acts as a left arrow key for menu navigation.
	Press the **UNITS** key to scroll through the available units of measure while in normal operating mode. Acts as a right arrow key for menu navigation.
	Press the **ZERO** key to zero the display. Acts as an ENTER key to accept a displayed value or function.
	Press the **FLEET** key to enter a Fleet truck ID. Press and hold to clear a Fleet Truck sequence.
	Press the **START** key to change optional traffic light status to green.
	Press the **STOP** key to change optional traffic light status to red.
	Press **ID** to show the current ID value. Press and hold **ID** to enter a new ID value.
	Press the **IN/OUT** key to enter an Inbound/Outbound truck ID. Aborts a numeric entry and acts as an ESCAPE key for some of the menu navigation. Press and hold to clear an In/Out Truck sequence.

SETUP	Press the **SETUP** key to access the setpoint editor. Press and hold to view the password entry screen for menu access.
REPORT	Press the **REPORT** key to access the Reports menu.
1 2 3 4 5 6 7 8 9 C 0 ·	Use the numeric keypad to enter numbers in the appropriate screens. Press the **C** (CLEAR) key to clear the last entry.

2.1.2 Annunciators

The annunciators on the display are shown and labeled in Figure 2.2.

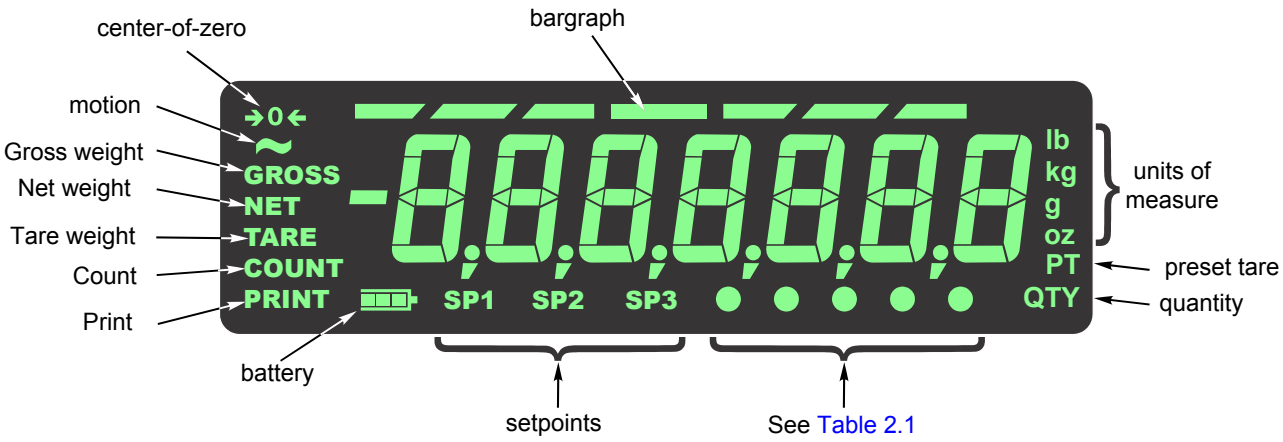


Figure 2.2 Annunciators

These annunciators will light during operation to inform the user of the weighing mode, active unit of measure, etc.

Table 2.1 Circle Annunciator assignments

Annunciator	Indicates
Circle 1 (left most)	Network activity
Circle 2	Custom unit
Circle 3	Pieceweight
Circle 3 & 4	Minimum
Circle 4 & 5	Maximum

2.2 Powering up the ZM305

The indicator is always active as long as power is received. Power can be supplied by:

- AC power cord connected to a properly grounded outlet (100 VAC - 240 VAC, 50 or 60 Hz)
- ZM-BAT - Optional external non-charging battery pack with 4 D cells
- DC power source (12 to 36 VDC)

2.3 Entering a negative number

To enter a negative number, press the **C** key to clear the current value from the display. With only one digit displayed press **SELECT**. The first character will be the (**-**) negative sign. Enter the rest of the digits normally.

3 Truck In/Out Operation

This chapter covers the operation of the ZM305 truck scale indicator.

*You can view the gross, net and tare display values by repeatedly pressing the **SELECT** key.*

3.1 General weighing

This section covers general weighing: Gross, tare and net weighing.

3.1.1 Gross weighing

To change unit of measure, press **UNITS**.

To perform gross weighing, power up the unit and follow these steps:

1. Empty the scale and press **ZERO** to zero the display …

   0 is displayed and the *center-of-zero* annunciator lights.

2. Place item to be weighed on the scale …

   Weight is displayed.

3. Repeat steps 1 and 2.

3.1.2 Net weighing

Net weighing is available via three types of tare entry.

Pushbutton tare	When enabled press **TARE** to tare the weight on the scale.
Entered tare	When enabled key in a tare weight and press **TARE** to set.
Preset tare	When enabled press **TARE** to recall a preset tare numbered 1-10.

Pushbutton and Entered Tares can be enabled simultaneously. If Preset Tare is enabled, Pushbutton and Entered Tares are automatically disabled.

There is an auto tare clear feature. If this is enabled, after a weighment, when the weight falls into the gross zero band, tare is cleared to zero.

Definition: Gross zero band - this is a configured value that defines a window around gross zero. This is used in several ways in different applications.

The three types of tare are explained below.

3.1.3 Using Pushbutton Tare

To perform a net weighment using pushbutton tare, power up the unit and follow these steps:

1. Place item to be tared on the scale …

   Weight is displayed.

2. Press **TARE** …

   0 is displayed and the *NET* annunciator lights.

3. Place material to be weighed into or on the tared item on the scale …

   Net weight of material is displayed.

4. Repeatedly press **SELECT** to view the gross, tare, and net values.

5. If repeated weighments use the same tared item, you do not need to establish a new tare value as described in step 1 and 2.

6. To clear a tare value, press and hold the **TARE** key until …

   cLEArEd is displayed.

Using Entered Tare

To perform a net weighment using entered tare, the following steps describe a typical operation:

1. With no weight on the scale, if the display does not read ***0*** press **ZERO** …

   0 is displayed and the *center-of-zer*o annunciator lights.

2. Key in the tare value of the container or box that will be used to hold the material that requires a net weight value, and press **TARE** …

   Tare weight is displayed as a negative value and the *NET* annunciator lights.

3. Place the container or box and material to be weighed on the scale …

   Net weight of material is displayed.

4. If repeated weighments use the same tared item, you do not need to establish a new tare value as described in step 2.

5. To remove the tare weight from the scale, enter ***0***, then press **TARE** …

   The tare is cleared and the scale is in gross weigh mode.

Using Preset Tare

Preset tares are available if entered in a password protected menu by a supervisor. There can be up to 10 tares numbered 1-10. To perform a net weighment using one of the preset tares, follow these steps:

1. With no weight on the scale, if the display does not read ***0*** press **ZERO** …

   0 is displayed and the *center-of-zero* annunciator lights.

2. Press **TARE** …

   Tare number entry screen appears.

3. Key in the preset tare number and press **ZERO** …

   Tare weight is displayed as a negative value and the *NET* annunciator lights.

4. Place container or box and material to be weighed on the scale …

   Net weight of material is displayed.

5. Repeat step 4 until you are finished using that tare weight.

6. To clear a tare value, press and hold **TARE** until …

   cLEArEd is displayed.

Tare is removed automatically if Auto Tare Clear is enabled.

If the active unit of measure is lb-oz then tare weights must be entered in the oz equivalent. To enter 2 lb 4.5 oz you would need to enter 36.5 oz (2 lb = 32 oz plus the 4.5)

3.2 Truck inbound-outbound operations

This indicator is designed to streamline the collecting of net weights from inbound and outbound trucks. Use the **IN/OUT** key for transactions involving non-Fleet trucks. Use the **FLEET** key for transactions involving Fleet Trucks that already have a stored tare weight.

Until a Truck ID is entered the **PRINT** key can be used for General weighing transactions using the configured protocols. Once a Truck ID is entered the **PRINT** key will be associated with an Inbound or Outbound Ticket transaction.

3.2.1 IN/OUT key operation

1. Press the **IN/OUT** key to perform a Truck Inbound or Outbound transaction. The indicator must be in the gross weight mode or the message ***cAnt*** is displayed momentarily.

   truckId is briefly displayed followed by the last active truck ID (last digit is flashing)

2. Press **ZERO** to accept the displayed ID…

OR

Use the numeric keypad to enter a different Truck ID and press **ZERO** to accept …

When entering the Truck ID:

- If the ID is already in use as a Fleet truck, the display will show ***cAnt*** then ***FLEEtId*** and then return to the weight screen.
- If the ID does not have a stored Inbound transaction the display will show ***inbnd*** (proceed to step 1)
- If the ID has a stored Inbound transaction the display will show ***outbnd*** (proceed to step 2)

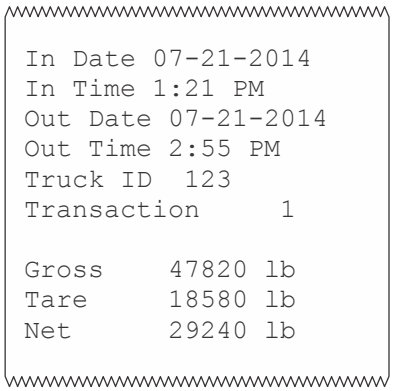
Inbound transaction (1st weighment)

1. When the truck is on the scale and weight is stable press **PRINT** to store and print the Inbound transaction. Below is an example of an Inbound ticket:

```
In Date 07-21-2014
In Time 1:21 PM
Truck ID 123
In Weight 18580 lb
```

Outbound transaction (2nd weighment)

2. When the truck is on the scale and weight is stable press **PRINT** to update totals for this Truck ID and print the Outbound transaction. Below is an example of an Outbound ticket:



3. If the Truck I/O transaction is no longer required, press and hold the **IN/OUT** key until ***io cLr*** is displayed to exit from the Truck I/O mode. The **PRINT** key can again be used for General weighing operation.

3.2.2 FLEET key operation

Until a Fleet Truck ID is entered the **PRINT** key can be used for General weighing transactions using the configured protocols. Once a Fleet Truck ID is entered the **PRINT** key will be associated with a Fleet Ticket transaction.

1. Press the **FLEET** key to perform transactions for Fleet trucks that have an assigned tare weight.

   FLEEtId is briefly displayed followed by the last active truck ID (last digit is flashing)

2. Press **ZERO** to accept the displayed ID …

OR

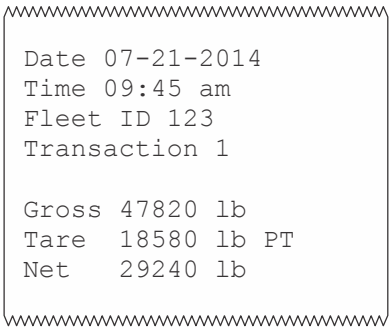
Use the numeric keypad to enter a different Fleet ID. Press **ZERO** to accept …

When entering the Fleet ID:

- If the ID exists as a valid Fleet Truck the display will show ***FLEEt*** momentarily and the *PT* (preset tare) annunciator lights as the stored Fleet Truck Tare weight is loaded into the active Tare. If no truck is on the scale the stored Tare will be displayed as a negative weight.
- If an entered Fleet ID does not exist, the display will show ***not Fnd*** momentarily. Fleet IDs must be entered in the Supervisor menu before they can be used.
- If the entered ID is associated with a Truck I/O record the display will show ***cAnt*** and ***io id*** briefly and then return to the weigh screen.

Fleet transaction

1. When the truck is on the scale and weight is stable press **PRINT** to update totals for this Fleet ID and print the Fleet transaction. Below is an example of a Fleet ticket:.



2. If the Fleet transaction is no longer required press and hold the **FLEET** key until ***FLt cLr*** is displayed to exit from the Fleet mode. The **PRINT** key can again be used for General weighing operation.

3.2.3 REPORT key operation

The REPORT key allows you to print four different printed reports: ***rEPrint***, ***in rPt***, ***out rPt***, and ***FLt rPt***. Follow these steps to print a report.

1. Press the **REPORT** key …

   rEPrint is displayed.

2. Use the **UNITS** or **PRINT** key to scroll through the other three choices. When your choice is displayed, press the **ZERO** key to print the report. Below are explanations for each report:

rEPrint	This choice reprints the last Inbound, Outbound or Fleet transaction ticket. The line **-------REPRINT------** will be added to the bottom of the ticket. The data is an exact duplicate of the last printout.
in rPt	Prints the report of all the Trucks that have recorded an Inbound transaction but have yet to complete the Outbound transaction. Individual or all Inbound records can be cleared in the Supervisor menu.
out rPt	Prints the report of all the Truck ID's and associated totals that have completed an Outbound transaction. Individual or all Outbound records can be deleted in the Supervisor menu.
FLt rPt	Prints the report of all the Fleet Truck ID's and tare weights and associated totals. Individual or all Fleet records can be deleted in the Supervisor menu.

3.2.4 Using setpoints

Setpoints are values (weight) at which outputs are triggered automatically. Outputs can control relays connected to valves, lights, other machinery, etc. Setpoint outputs can be configured in the setpoint menu shown in Figure 3.1.

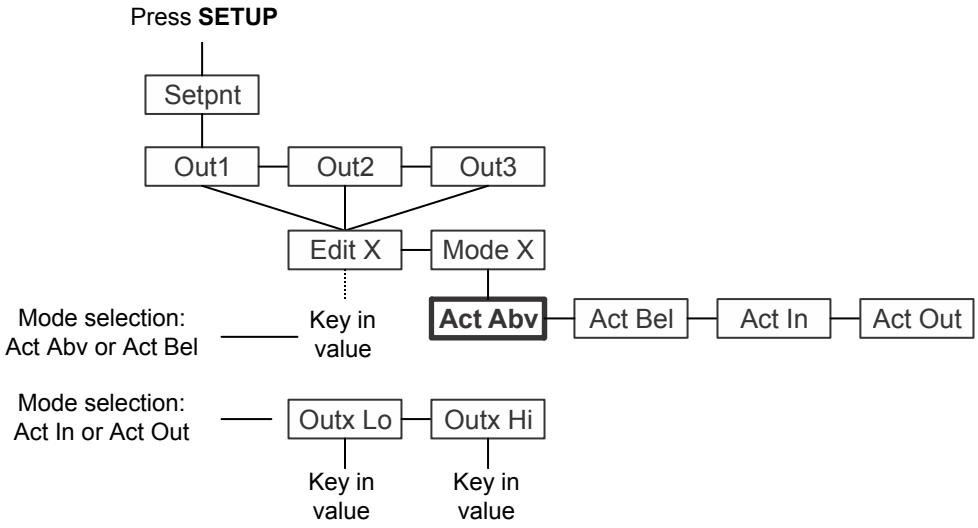


Figure 3.1 Setpoint menu

Default Setpoint operation
Mode = Active Above
Outputs must be enabled for setpoints to operate. See the Service Manual:

Below Configured Value:
Outputs are OFF
Annunciators are OFF

Above Configured Value:
Outputs are ON
Annunciators are ON

The setpoint outputs and setpoint annunciators logic state can be inverted from their default settings. Refer to details in the password protected menu settings in the section titled *Setpoint on page 41*.

Follow these steps to configure the outputs:

1. Press **SETUP** …

   out1 is displayed. This is the weight value for setpoint 1. You can access ***out2*** or ***out3*** by pressing the **UNITS** key. The following instructions apply to any of these three outputs.

2. Press **SELECT** …

   Edit X is displayed. ***X*** being the number of output.

3. Press **UNITS** …

   ModE X is displayed. This menu item sets the function of the output. Mode selection must be made before entering the Out value.

4. Press **SELECT** …

   The current Mode setting for the selected Output is displayed. The Mode settings are listed below:

Act AbV (default)	The output is active when the weight is above the set value
Act bEL	The output is active when the weight is below the set value
Act in	The output is active when the weight is inside of the low and high set values
Act out	The output is active when the weight is outside of the low and high set values

5. Press **UNITS** or **PRINT** to scroll through the choices shown above and then press **ZERO** to accept the displayed Mode …

   ModE X is displayed.

6. Press **UNITS** …

   Edit X is displayed. Set the value or values for the output under this menu item.

7. Press **SELECT** …

   If you selected Mode ***Act AbV*** or ***Act bEL***, a value entry screen is displayed. Go to step 8.

   If you selected Mode ***Act in*** or ***Act out***, ***outX Lo*** is displayed. This is one of two value entry screens under ***Edit X***. Go to step 9.

8. Key in a value the you want the output to activate above or below and press **ZERO** to accept the value.

   Edit X is displayed. Go to step 13.

9. Key in a value for ***outX Lo*** and press **ZERO** to accept …

   outX Lo is displayed.

10. Press **UNITS** …

    outX Hi is displayed.

11. Key in a value for ***outX Hi*** and press **ZERO** to accept …

    outX Hi is displayed.

12. Press the **TARE** key …

    Edit X is displayed.

13. Press the **TARE** key …

    OutX is displayed.

14. Repeat steps 1 through 12 for ***out2*** and ***out3***.

15. Press **TARE** repeatedly to return to normal weighing mode with the setpoints active.

3.2.5 Printing

If a Truck IO or Fleet transaction is in process, when **PRINT** is pressed the associated ticket print format will be transmitted though the configured port.

If a Truck transaction is not in process then when you press the **PRINT** key, the configured print format will be output through the configured port to the connected peripheral device. The indicator can be configured to only allow one print for each weighing sequence. If **PRINT** is pressed when so configured, ***cAnt*** is displayed instead of printing again.

Refer to *Default print formats on page 35*.

Printing any of the configured print formats is possible using the Numbered Print feature. Enter the print format number and then press the **PRINT** key. The selected print format will be transmitted out all ports that are configured to print. This feature is disabled during a Truck In/Out transaction sequence. If the Truck transaction is no longer required, press and hold the **IN/OUT** or **FLEET** key to reset the transaction sequence.

3.2.6 ID Entry

An ID can be entered for use with transmitted or printed transactions. Press and hold the **ID** key and the message ***id*** is displayed followed by the current ID value. Enter up to seven digits (numeric only) and press **ZERO**. To review press the ID key and the active ID will be displayed for a few seconds before returning to normal operation.

3.3 Traffic light controls

Additional traffic light control information can be found under ***Lite*** in the Supervisor menu found on page 51.

3.3.1 START key

The **START** key will update the XR4500 application print token (A65) to use characters that control the green light control command on a XR4500TL remote scoreboard equipped with the traffic light feature.

3.3.2 STOP key

The **STOP** key will update the XR4500 application print token (A65) to use characters that control the red light control command on a XR4500TL remote scoreboard equipped with the traffic light feature.

4 Menus

Password protected menus are available to configure the indicator and/or view information.

4.1 Accessing the menus

Follow these steps to access the menus in the ZM305.

1. With the indicator powered up and in normal operating mode, press and hold **SETUP** …

   Pass is displayed, prompting you to enter the password.

2. Key in the password for the menu you want and press the **ZERO** key …

   The first item in the top level of the menu you accessed is displayed.

3. Use the navigation keys, shown below, to navigate through the menu structure. The symbols in the chart appear on the bottom of the keys.

Press **SELECT**/ ▼ to move down in a menu
Press **TARE**/ ▲ to move up in a menu, except at the bottom item in a menu, then use **ZERO**/ ↵
Press **PRINT**/ ◀ to move left in a menu
Press **UNITS**/ ▶ to move right in a menu
Press **ZERO**/ ↵ to accept a value or choice and move up in the menu.
Press **IN/OUT** to abort numeric entries or as an escape from a menu item

4.2 Menu annunciators

The menu structure is made up of menu items, parameters, value entry screens and lists from which you choose one item. To help you know where you are in the menu, the bargraph at the top of the display is on while the indicator is in the menus and will change appearance according to the following rules:

All segments flashing	This means you are in the menu structure but not in any of the following screens.
Center flashing / others solid	This means you are in a parameter prompt screen.
Center flashing / others off	This means you are in a numeric entry screen. Enter a number and press **ZERO** to accept.
Right flashing / others off	This means you are in a list. Scroll through the choices with the **PRINT** and **UNITS** keys and press **ZERO** to accept.

4.3 Exiting the menus

1. If you are at the bottom item in a menu use **ZERO** to accept a choice or value and move up a level, or use **IN/OUT** to escape and move up one level without accepting the choice or value. From that point, press **TARE** repeatedly until …

   SAVE no is displayed. This means "Do not save changes."

2. Press **UNITS** to scroll through the choices: ***SAVE no***, ***SAVEYES*** and ***CAnCEL***. Press **ZERO** to accept the displayed choice.

   If you choose ***SAVE no*** or ***SAVEYES*** the indicator exits the menu and returns to normal weighing mode.

   OR

If you choose ***CAnCEL***, the indicator remains in the menu.

4.4 USER level menus

The USER level menus are available to the user. The other menu levels are for supervisors and technicians only.

The USER level (password 111) contains the User, About, and Audit menus arranged as shown in Figure 4.1.

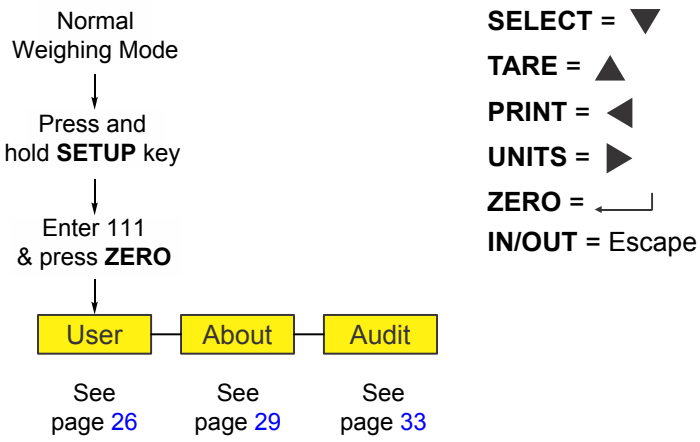


Figure 4.1 USER level (password 111) menus

4.5 User menu

The User menu is shown in Figure 4.2.

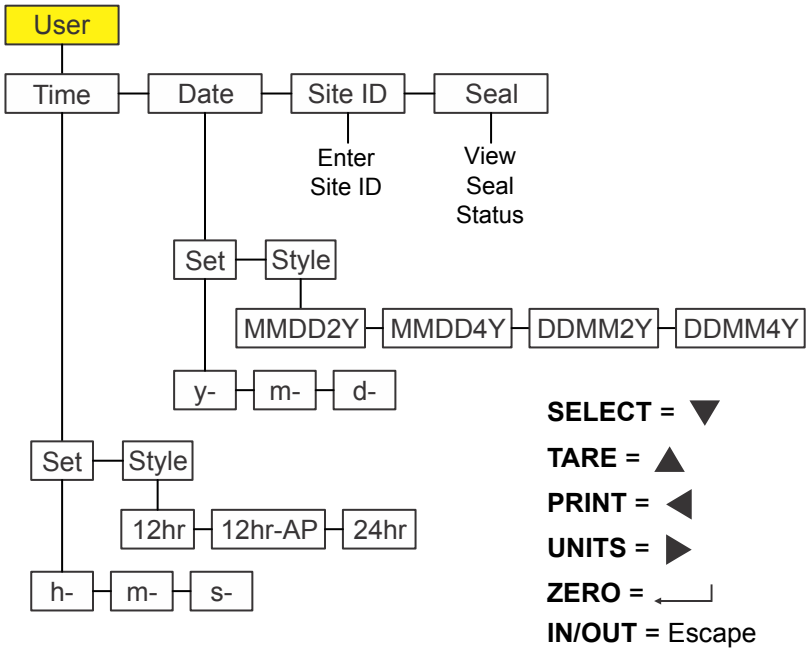


Figure 4.2 User menu

Use this menu to set the time and date, to enter a site ID, and view the physical seal status. Each is explained below:

4.5.1 Time

User ↓ Time

*The ↓ and → symbols used in this section stand for direction moved in the menu. So User ↓ Time, shown above, illustrates that you move down from **uSEr** to **tiME**. This will help you keep track of where you are in the menu structure.*

1. Access the User menu (see *Accessing the menus on page 24*) and press **SELECT** …

   tiME is displayed. Use this to set the time and clock style.

2. Press **SELECT** …

   SEt is displayed.

3. Press **SELECT** …

   h- ***x*** is displayed, with the ***x*** flashing. This is a numeric entry screen for the hour value.

4. Key in the hour of the day using military (24 hr) time and press ***ZERO*** to accept …

   M- x is displayed, with the ***x*** flashing. This is a numeric entry screen for the minute value.

5. Key in the minute value and press ***ZERO*** to accept …

   S- x is displayed, with the ***x*** flashing. This is a numeric entry screen for the second value.

6. Key in the seconds value and press ***ZERO*** to accept …

   SEt is displayed.

7. Press **UNITS** …

   StYLE is displayed. Use this to set the style of clock for printouts. Choices are ***12hr***, ***12hr-AP*** (AM/PM) and ***24hr*** (military time).

8. Press **SELECT** …

   12hr is displayed.

9. Press **UNITS** to scroll through the choices. Press **ZERO** to accept the displayed choice …

   StYLE is displayed.

10. Press **TARE** …

    tiME is displayed.

4.5.2 Date

User ↓ Time → Date

1. From ***tiME***, press **UNITS** …

   dAtE is displayed.

2. Press **SELECT** …

   SEt is displayed.

3. Press **SELECT** …

   y- x is displayed, with the ***x*** flashing. This is a numeric entry screen for the year value.

4. Key in the year and press ***ZERO*** to accept …

   M- x is displayed, with the ***x*** flashing. This is a numeric entry screen for the month.

5. Key in the month value and press ***ZERO*** to accept …

   d- x is displayed, with the ***x*** flashing. This is a numeric entry screen for the day value.

6. Key in the day value and press ***ZERO*** to accept …

   SEt is displayed.

7. Press **UNITS** …

   StYLE is displayed. Use this to set the style of date for printouts. Choices are ***MMDD2Y***, ***MMDD4Y***, ***DDMM2Y*** and ***DDMM4Y***.

8. Press **SELECT** …

   MMDD2Y is displayed.

9. Press **UNITS** to scroll through the choices. Press **ZERO** when your choice is displayed …

   The choice is made and ***StYLE*** is displayed.

10. Press **TARE** …

    dAtE is displayed.

4.5.3 Site ID

User ↓ Time → Date → Site ID

1. From ***dAtE***, press **UNITS** …

   SitE id is displayed.

2. Press **SELECT** …

   A numeric entry screen is displayed.

3. Key in a site ID number on the numeric keypad and press **ZERO** to accept …

   SitE id is displayed.

The Site ID can be used in transmitted or printing information. ASCII characters 32-126 can be used.

4.5.4 Seal

User ↓ Time → Date → Site ID → Seal

1. From ***SitE id***, press **UNITS** …

   SEAL is displayed.

2. Press **SELECT** …

   unSEALE or ***SEALEd*** is displayed. This is the status of the physical seal inside the indicator. If the unit is sealed, no changes can be made to the configuration of the indicator.

3. Press **ZERO** to return to the ***SEAL*** display.

4. To exit the menu, see *Exiting the menus on page 25*.

4.6 About menu

The About menu is shown in Figure 4.3.

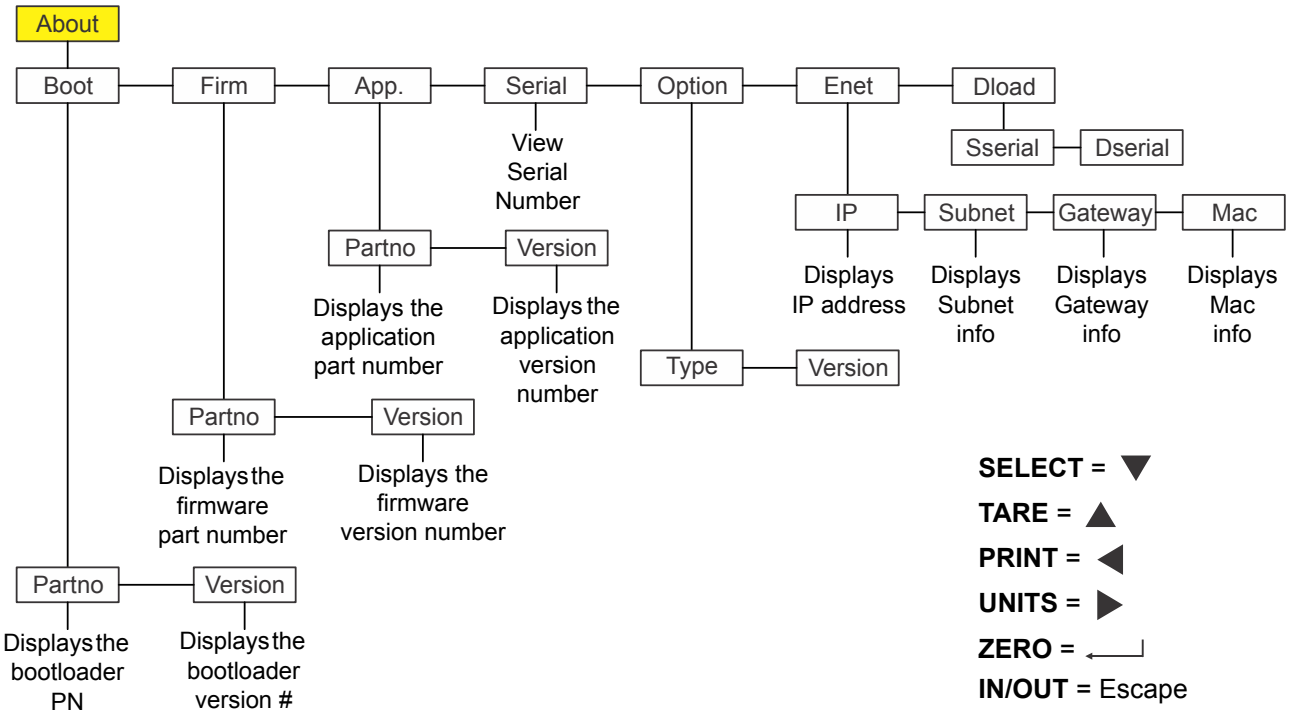


Figure 4.3 About menu

Use this menu to display information about the various items shown in Figure 4.3. Each is explained below:

4.6.1 Boot

About ↓ Boot

1. Access the About menu and press **SELECT** …

   boot is displayed.

2. Press **SELECT** …

   PArtno is displayed

3. Press **SELECT** …

   The 1st half of the bootloader PN is displayed. Press **UNITS** to view the 2nd half.

4. Press **ZERO** to return to the ***PArtno*** display.

5. Press **UNITS** …

   VErSion is displayed.

6. Press **SELECT** …

   The version number of the bootloader is displayed.

7. Press **ZERO** to return to the ***VErSion*** display.
8. Press **TARE** to return to the ***boot*** display.

4.6.2 Firm and App

About ↓ Boot → Firm and App

1. From ***boot***, press **UNITS** …

   FirM is displayed. This stands for firmware.

2. Repeat the same pattern of key presses in steps 2 through 7 to view the part number and version for the ***FirM***. and ***APP*** menu items.

4.6.3 Serial

About ↓ Boot → Firm → App → Serial

1. With ***APP*** displayed, press **UNITS** …

   SEriAL is displayed.

2. Press **SELECT** …

   The first four digits of the indicator serial number are displayed. Press **UNITS** to view the last five digits.

3. Press **TARE** to return to the ***SEriAL*** display.

4.6.4 Option

About ↓ Boot → Firm → App → Serial → Option

1. From ***SEriAL***, press **UNITS** …

   oPtion is displayed.

2. Press **SELECT** …

   VErSion is displayed. This stands for the software version of the currently installed option card. This can be useful service information.

3. To view the version, press **SELECT** …

   The software version number is shown.

4. Press **ZERO** …

   oPtion is displayed.

5. Press **UNITS** …

   tYPE is displayed. This stands for the type of option card installed. The four option cards are: Analog, 802.11g wireless, USB-d, and Current Loop/RS485/RS422.

6. Press **SELECT** …

   The currently installed option card name is displayed.

7. Press **ZERO** …

   tYPE is displayed.

8. Press **TARE** …

   oPtion is displayed.

4.6.5 Enet

About ↓ Boot → Firm → App → Serial → Option → Enet

If the indicator is connected to an ethernet network, the values displayed will be the current assigned addresses.

1. From ***oPtion***, press **UNITS** …

   EnEt is displayed. Use this item to view the values for the IP, Subnet, Gateway and MAC addresses.

2. Press **SELECT** …

   iP is displayed. Use this item to view the four part IP address.

3. Press **SELECT** …

   1 XXX is displayed. This is first octet of the IP address

4. Press **ZERO** …

   2 XXX is displayed. This is second octet of the IP address.

5. Press **ZERO** …

   3 XXX is displayed. This is third octet of the IP address.

6. Press **ZERO** …

   4 XXX is displayed. This is fourth octet of the IP address.

7. Press **ZERO** …

   iP is displayed.

8. Press **UNITS** …

   Subnet is displayed.

9. Repeat this sequence of key presses for the ***Subnet***, ***Gateway*** and ***MAC*** addresses.

10. When finished press **TARE** …

    EnEt is displayed.

4.6.6 Dload

About ↓ Boot → Firm → App → Serial → Option → Enet → Dload

1. From ***EnEt***, press **UNITS** …

   dLoAd is displayed. This stands for download. Under ***SSEriAL*** you can view the serial number of the software application that created the configuration file. Under ***dSEriA***L you can view the serial number of the software application that downloaded the configuration file. This is used for security and licensing purposes.

2. Press **SELECT** …

   SSEriAL is displayed.

3. Press **SELECT** …

   The 1st part of the serial number of the creating application of the configuration file is displayed.

4. Press **UNITS** two more times to see the complete serial number.

5. Press **ZERO** …

   SSEriAL is displayed.

6. Press **UNITS** …

   dSEriAL is displayed.

7. Press **SELECT** …

   The 1st part of the serial number of the downloading application of the configuration file was downloaded to, is displayed.

8. Press **UNITS** two more times to see the complete serial number.

9. Press **ZERO** …

   dSEriAL is displayed.

10. Press **TARE** until ***About*** is displayed.

11. To exit the menu, see *Exiting the menus on page 25*.

4.7 Audit menu

The Audit menu is shown in Figure 4.4.

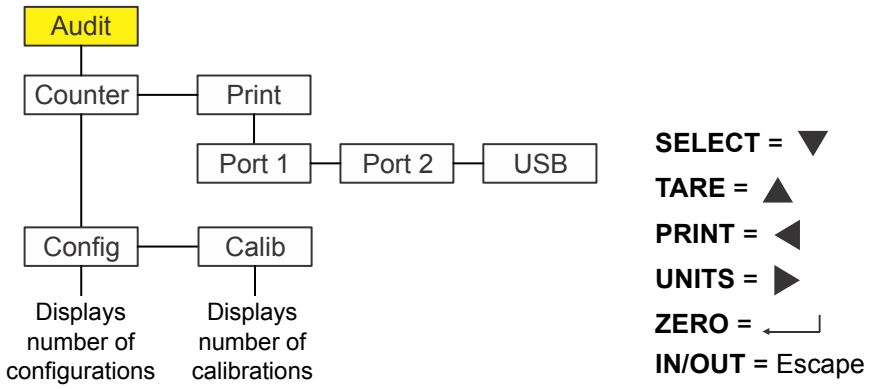


Figure 4.4 Audit menu

Use this menu to display audit counters for configuration and calibration and to print the information. Each is explained below:

4.7.1 Counter

Audit ↓ Counter

1. Access the Audit menu and press **SELECT** …

   countEr is displayed. This has two counters that tell you how many times the indicator has been configured and calibrated.

2. Press **SELECT** …

   conFig is displayed.

3. Press **SELECT** again …

   A number appears showing how many times the indicator has been configured.

4. Press **ZERO** …

   conFig is displayed.

5. Press **UNITS** …

   cALib is displayed.

6. Press **SELECT** …

   A number appears showing how many times the indicator has been calibrated.

7. Press **ZERO** …

   cALib is displayed.

8. Press **TARE** …

   countEr is displayed.

4.7.2 Print

Audit ↓ Counter → Print

1. From ***countEr***, press **UNITS** …

   Print is displayed.

2. Press **SELECT** …

   Port1 is displayed. This is the first of three choices: ***Port 1***, ***Port 2*** or ***uSb***. Use these to select which port to print the audit report through.

3. Press **UNITS** to scroll through the choices and press **ZERO** when your choice is displayed …

   The audit log is printed through the chosen port and ***Print*** is displayed.

4. This completes the Audit menu. To exit the menu, see *Exiting the menus on page 25*.

5 Communications

The ZM305 can communicate through these ports:

- Serial
- Ethernet
- USB
- Wireless 802.11g

5.1 Default print formats

Below are examples of the default formats that are available:

Print format #1 (GTN)

```
  Gross  272.04 lb
   Tare   95.88 lb
    Net  176.16 lb
```

Print format #28 (Inbound ticket)

```
  In Date 2015-03-25
  In Time 10:50:45
       ID    38577
In Weight  14300 lb
```

Print format #27 (Outbound ticket)

```
    In Date  2015-03-25
    In Time  10:50:45
   Out Date  2015-03-25
   Out Time  10:56:04
         ID    38577
Transaction     51

      Gross    51040 lb
       Tare    14300 lb
        Net    36740 lb
```

Print format #36 (Fleet ticket)

```
        Date  2015-03-25
        Time  10:51:24
   Fleet ID   759111
Transaction    192

      Gross  69080 lb
       Tare  14100 lb PT
        Net  54980 lb
```

5.1.1 Report Printout Samples

INBOUND Report

```
     Inbound Vehicle Report
     10:36:41   03-25-2015

   ID     Time         Date         Weight
-------- -------- ---------- --------------

 966558      20:17   3-9-2015        49300 lb
 561152      22:41  3-11-2015         6800 lb
 443216      13:05  3-18-2015        59000 lb
 606912       5:53  3-18-2015        11620 lb
 394736       1:05  3-18-2015        13380 lb

  End of Inbound Report
```

OUTBOUND Report

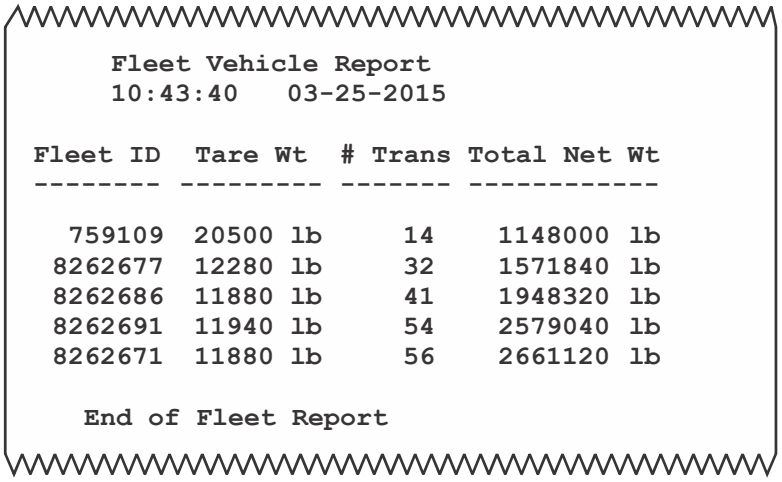
```
    Outbound Vehicle Report
    10:39:32   03-25-2015

   ID      # Trans  Total Net Wt
--------   -------  ------------

 674758         2     130400 lb
 806039         2      99200 lb
 961564         6     250100 lb
 735023         5     317900 lb
 495520        10     361200 lb

  End of Outbound Report
```

FLEET Report



```
     Fleet Vehicle Report
     10:43:40   03-25-2015

Fleet ID  Tare Wt  # Trans Total Net Wt
-------- --------- ------- ------------

  759109  20500 lb     14    1148000 lb
 8262677  12280 lb     32    1571840 lb
 8262686  11880 lb     41    1948320 lb
 8262691  11940 lb     54    2579040 lb
 8262671  11880 lb     56    2661120 lb

   End of Fleet Report
```

6 Error messages

6.1 General messages

The following error messages may be displayed during use of the indicator:

Message	Display
Overload	
Can't fit on display or load cell not properly connected	
Underload	
Can't	
Entry not in valid range	
Password entry failed	
Remote display not receiving data from the master indicator	
Indicator did not reach a stable zero weight within time window set for automated weighing process.	  
Indicates the battery is enabled and TMOUT value is set but the indicator is not operating with the proper battery shutoff circuitry	

6.2 Truck scale database CSV file import/export messages

The following error messages may be displayed during use of the indicator:

Message	Display
Failed to get CSV file handle	
Failed to allocate memory for CSV file	
First line of CSV file is invalid	
Failed to read CSV file, size didn't match	
StrRowData too big	
Field count mismatch	
CSV Import field does not exist	

7 Supervisor menu

This menu, Figure 7.1, allows a supervisor to change those functions of the Truck Inbound/Outbound application that are configurable. Access the supervisor menu using the password 1793. Refer to *Accessing the menus on page 24* for instructions.

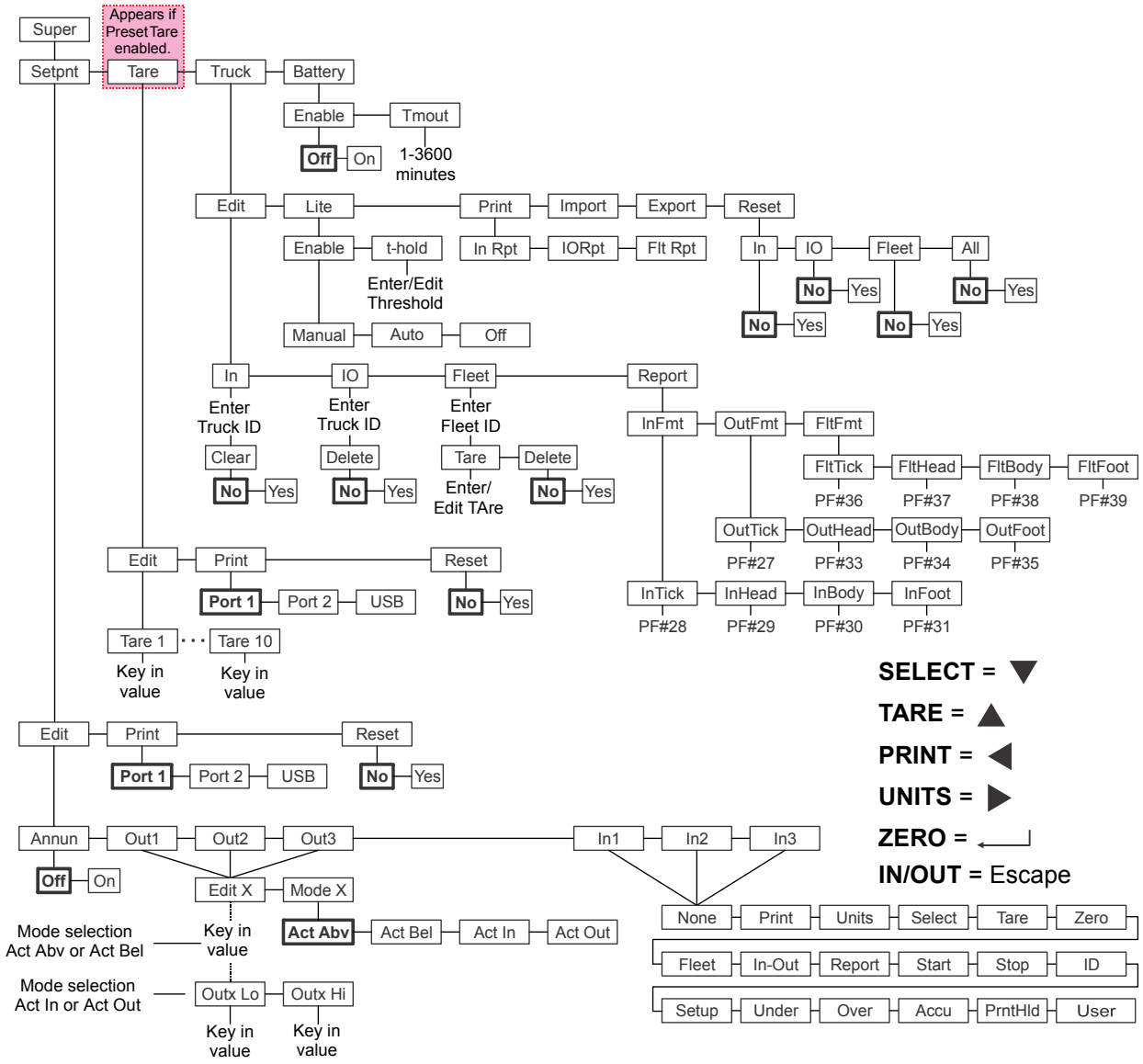


Figure 7.1 Supervisor menu for the Inbound-Outbound application

Wherever there is an option to print information, the information will print out of Port 1, Port 2 or to USB, whichever is configured.

The menus are always explained in a sequential manner to cover all information in a logical fashion. You will probably never access all the menu items in this manner. You can navigate to the area of the menu that needs to be changed by using the navigation key chart shown with the menu.

Follow these steps to set the items in the Supervisor menu.

7.1 Setpoint

Super↓ Setpoint

*The ↓ and → symbols used in this section stand for direction moved in the menu. So Super ↓ Setpoint, shown above, illustrates that you move down from **SuPEr** to **SEtPnt**. This will help you keep track of where you are in the menu structure.*

If you are using a battery operated indicator with any application, setpoint output #3 can be configured for shutting down the battery for power saving. See the Service manual for information on setting up setpoint outputs and optional power saving circuitry you can create to shutdown power from a battery.

A setpoint value can be entered ranging from +/- scale capacity. See Entering a negative number on page 14 for the negative numeric entry process.

See the Service manual for information on enabling the setpoint outputs. Setpoints that are not used should be disabled.

1. Access the Supervisor menu. Refer to *Accessing the menus on page 24* for instructions. From ***SuPEr***, press **SELECT** …

   SEtPnt is displayed. Use this to:

   - set the mode of setpoint operation
   - set the function of the setpoint annunciators
   - enter up to three setpoint values
   - select function for up to three inputs
   - print the setpoint settings
   - reset all setpoint settings to factory defaults.

Annunciators

Setpoint ↓ Edit ↓ Annun

2. Press **SELECT** …

   Edit is displayed.

3. Press **SELECT** …

   Annun is displayed.

   This stands for annunciators, referring to the *SP1*, *SP2* and *SP3* setpoint annunciators. By default (***oFF***) these annunciators are ON when the selected mode of the setpoint is active or OFF when the selected mode of the setpoint is not active. If you select ***on***, the annunciators work in the opposite fashion--OFF when the selected mode is active or ON when the selected mode is not active.

4. Press **SELECT** …

   The current setting is displayed (***oFF*** or ***on***).

5. Press **UNITS** to toggle between the choices and when your choice is displayed, press **ZERO** to accept …

   Annun is displayed.

Outputs

Setpoint → Edit → Annun → Out

6. Press **UNITS** …

   out1 is displayed. This is the weight value for setpoint 1. You can access ***out2*** or ***out3*** by pressing the **UNITS** key. The following instructions apply to any of these three outputs.

7. Press **SELECT** …

   Edit X is displayed. ***X*** being the number of output.

8. Press **UNITS** …

   ModE X is displayed. This menu item sets the function of the output. Mode selection must be made before entering the Out value.

9. Press **SELECT** …

   The current Mode setting for the selected Output is displayed. The Mode settings are listed below:

Act AbV (default)	The output is active when the weight is above the set value
Act bEL	The output is active when the weight is below the set value
Act in	The output is active when the weight is inside of the low and high set values
Act out	The output is active when the weight is outside of the low and high set values

10. Press **UNITS** or **PRINT** to scroll through the choices shown above and then press **ZERO** to accept the displayed Mode …

    ModE X is displayed.

11. Press **UNITS** …

    Edit X is displayed. Set the value or values for the output under this menu item.

12. Press **SELECT** …

    If you selected Mode ***Act AbV*** or ***Act bEL***, a value entry screen is displayed. Go to step 13.

    If you selected Mode ***Act in*** or ***Act out***, ***outX Lo*** is displayed. This is one of two value entry screens under ***Edit X***. Go to step 14.

13. Key in the value you want the output to activate above or below and press **ZERO** to accept the value.

    Edit X is displayed. Go to step 18.

14. Key in a value for ***outX Lo*** and press **ZERO** to accept …

    outX Lo is displayed.

15. Press **UNITS** …

    outX Hi is displayed.

16. Key in a value for ***outX Hi*** and press **ZERO** to accept …

    outX Hi is displayed.

17. Press the **TARE** key …

    Edit X is displayed.

18. Press the **TARE** key …

    OutX is displayed.

19. Repeat steps 6 through 17 for ***out2*** and ***out3***.

Inputs

Setpoint ↓ Edit ↓ Annun → Out → In

20. Press **UNITS** when finished …

    in1 is displayed. This stands for input 1. Use this to assign a function to input 1 when an external switch is tripped. Default choice is ***nonE***. The choices are listed in Figure 7.1.

Inputs are enabled (ON) in a separate password protected menu. Some input choices will not apply in the application that is active.

21. From ***in1***, press **SELECT** …

    The current choice is displayed.

22. Press **UNITS** to scroll through the choices and when your choice is displayed, press **ZERO** to accept …

    in1 is displayed.

23. Press **UNITS** …

    in2 is displayed.

24. Repeat steps 21 through 23 for ***in2*** and ***in3***.

25. Press **TARE** when finished …

    Edit is displayed.

Print

Setpoint ↓ Edit → Print

26. Press **UNITS** …

    Print is displayed. Use this to print the settings under ***SEtPnt***.

27. Press **SELECT** …

    Port 1 is displayed.

28. Press **IN/OUT** to abort the print process or press **UNITS** to scroll to the desired port and press **ZERO** to print the information …

    Print is displayed after either action.

Reset

Setpoint ↓ Edit → Print → Reset

29. Press **UNITS** …

    rESEt is displayed. Use this to reset the settings under ***Edit*** to factory defaults.

30. Press **SELECT** …

    no is displayed.

31. Press **ZERO** to abort the reset or press **UNITS** …

    YES is displayed.

32. Press **ZERO** to reset the settings to factory defaults …

    rESEt is displayed.

33. Press **TARE** …

    SEtPnt is displayed.

7.2 Tare

Super ↓ Setpoint → Tare

If Preset Tare is not enabled in a separate password protected menu, skip to step 7. If it is enabled continue to the next step.

1. Press **UNITS** …

   tArE is displayed.

   Use this to:

   - set values for up to 10 preset tares
   - print the values of the preset tares
   - reset all preset tares to factory defaults of 0

   The following steps describe the procedures.

Tare Register 1-10

Tare ↓ Edit ↓ Tare 1-10

2. Press **SELECT** …

   Edit is displayed.

3. Press **SELECT** …

   tArE 1 is displayed. This is the first of the 10 preset tare values you can set.

4. Press **SELECT** …

   The current value is displayed with a flashing right digit.

If the active unit of measure is lb-oz then tare weights must be entered in the oz equivalent. To enter 2 lb 4.5 oz you would need to enter 36.5 oz (2 lb = 32 oz plus the 4.5)

5. Press **ZERO** to accept the displayed value or key in a new value and press **ZERO** to accept …

   tArE 1 is displayed.

6. Press **UNITS** …

   tArE 2 is displayed.

7. Repeat steps 4 through 6 for ***tArE 2*** through ***tArE 10***. Press **TARE** when finished …

   Edit is displayed.

Printing

Tare ↓ Edit → Print

8. Press **UNITS** …

   Print is displayed. Use this to print the preset tare values.

9. Press **SELECT** …

   Port 1 is displayed.

10. Press **IN/OUT** to abort the print process or press **UNITS** to scroll to the desired port and press **ZERO** to print the information …

    Print is displayed after either action.

Reset

Tare ↓ Edit → Print → Reset

11. Press **UNITS** …

    rESEt is displayed. Use this to reset the all the preset tares to the factory default of 0.

12. Press **SELECT** …

    no is displayed.

13. Press **ZERO** to abort the reset or press **UNITS** …

    YES is displayed.

14. Press **ZERO** to reset the settings to factory defaults …

    rESEt is displayed.

15. Press **TARE** …

    tArE is displayed.

7.3 Truck

Super ↓ Setpoint → Tare → Truck

1. Press **UNITS** …

   trucK is displayed. Use this menu item to create, delete, print or reset Truck records, re-assign the default print formats for various Truck reports, and Import or Export Truck records.

Edit

Truck ↓ Edit

2. Press **SELECT** …

   Edit is displayed. The ***Edit*** menu lets you clear unnecessary inbound records, delete individual outbound records, create new or edit existing Fleet truck tare weights or delete individual Fleet truck records.

in, io, FLEEt and rEPort

3. Press **SELECT** …

   in is displayed. The choices on this menu level are ***in***, ***io***, ***FLEEt*** and ***rEPort***.

in	Use this to clear an existing Inbound transaction that has not been closed by an Outbound transaction.
io	Use this to delete a Truck I/O record.
FLEEt	Use this to create, edit or delete a Fleet ID record.
REPORT	Use this to print the same reports available from the **REPORT** key.

4. Press the **UNITS** key to scroll thru the choices. Press **SELECT** when the desired choice is displayed.

   If you select ***in*** go to step 5.

   If you select ***io*** go to step 10.

   If you select ***FLEEt*** go to step 15.

   If you select ***rEPort*** go to step 22

Clear Inbound records

5. With ***in*** displayed, press **SELECT** …

   A value entry screen is displayed.

6. Key in the Truck ID and press the **ZERO** key …

   cLEAr is displayed.

7. Press **SELECT** …

   no is displayed.

8. Press **UNITS** to toggle between ***YES*** and ***no***. Press **ZERO** when ***YES*** is displayed to clear the Inbound record …

   bUSY is briefly displayed and then ***in*** is displayed.

9. Repeat from step 5 for any other inbound records you want to remove.

Delete Truck I/O records

10. With ***io*** displayed press **SELECT** …

    A value entry screen is displayed.

11. Key in the Truck ID and press the **ZERO** key …

    dELEtE is displayed.

12. Press ***SELECT*** …

    no is displayed.

13. Press **UNITS** to toggle between ***YES*** and ***no***. Press **ZERO** when ***YES*** is displayed to delete the Outbound record. This will delete all transaction totals for the selected Truck ID …

    bUSY is briefly displayed and then ***io*** is displayed.

14. Repeat from step 10 for any other outbound records you want to delete.

Edit Fleet records

15. With ***FLEEt*** displayed press **SELECT** …

    A value entry screen is displayed.

16. Key in the Fleet Truck ID and press **ZERO** …

    If this is an existing ID, ***FLEEt*** is briefly displayed then ***tArE***. Go to step 17.

    If this is a new ID, ***not Fnd*** (not found) is briefly displayed followed by ***Adding***, followed by ***tArE***.

17. With ***tArE*** displayed you can either edit the Fleet Tare weight or go to step 19 to delete the Fleet ID. To edit a Fleet Tare weight press **SELECT** …

    Edit Fleet Tare Weight

    The next procedure depends on if this is a new or existing Fleet ID and whether an empty Fleet truck is on the scale to establish the tare weight. If there is an empty Fleet truck on the scale (or any weight above the GZB) the live weight will be displayed. Press **ZERO** to save the live weight.

If the Tare value is not greater that the Gross Zero Band, the ID will not be saved.

    New Fleet Truck ID

    If the weight on the scale is below the Gross Zero Band (GZB) then ***0*** is displayed. Use numeric entry to manually enter the Fleet truck tare weight.

    Otherwise the Saved live weight is displayed. Press **ZERO** to store this value or use numeric entry to manually enter the Fleet truck tare value.

    Existing Fleet Truck ID

    If the weight on the scale is below the GZB the *PT* annunciator is illuminated and the stored Fleet tare weight is displayed. Use numeric entry to change or press **ZERO** to continue to use this as the Fleet truck tare value.

    Otherwise the Saved live weight is displayed. Press **ZERO** to store the live weight or use numeric entry to manually enter the Fleet truck tare value. After pressing **ZERO** to save the value, ***tArE*** is displayed.

18. To add more Fleet ID's press the **TARE** key to return to step 15 or continue to press **TARE** to exit back to normal operation.

Delete Fleet ID

19. Press **UNITS** …

    dELEtE is displayed.

20. Press **SELECT** …

    no is displayed. This is your option not to delete the Fleet ID.

21. Press **UNITS** to toggle between ***YES*** and ***no***. Press **ZERO** when your choice is displayed …

    If you choose ***no***, the ID is not deleted and the display shows ***dELEtE***.

    If you choose ***YES***, ***bUSY*** is briefly displayed, the ID is deleted and ***FLEEt*** is displayed. To delete more Fleet IDs return to step 15 or continue to press **TARE** to exit back to normal operation.

Print Truck Reports

22. From ***FLEEt*** press **UNITS** …

    rEPort is displayed. This menu item lets you assign a print format number to the various print tickets and reports. The choices are inbound ***inFMt***, outbound ***outFMt***, and fleet ***FLtFMt***. Each one has a separate print format assigned for the Ticket Transaction, the Header, the Body and the Footer.

    Under ***inFMt*** are these items:

inticK	This defines which print format is used during the Inbound ticket transaction.
inhEAd	This defines which print format is used for the header or top of the Inbound report.
inbodY	This defines which print format is used for the body of the Inbound report
inFoot	This defines which print format is used for the footer or bottom of each Inbound report.

    Under ***outFMt*** are the same items except the prefix is changed to ***out***:

    outticK, ***outhEAd***, ***outbodY***, ***outFoot***

    Under ***FLtFMt*** are the same items except the prefix is changed to ***FLt***:

    FLtticK, ***FLthEAd***, ***FLtbodY***, ***FLtFoot***

23. Press **SELECT** …

Report Print Formats

For example, the Ticket transaction might print the Truck ID, the time/date, and associated weight values for the type of transaction.

For example, the Header might print the scale owner company name, address and time/date of the report and appropriate labels to align with the information contained in the Body of the report.

The Body would print the Truck ID and associated weights and times (Inbound only). The Body print format performs automatic “loop” printing of the data contained in the print format. The “loop” is controlled by the Truck In, Truck Out and Fleet ID’s print tokens and will continue to repeat the print format for all ID’s that are stored in their respective areas of the database.

For example, the Footer might only print “End of xxxxx Report” or just send a form feed character for proper paper advance upon completion.

Report Printing Structure

When a report is printed, all 3 associated print formats, Header, Body and Footer, are automatically sent to the assigned or binded port. Examples of the default print formats for Tickets and Reports are shown on page 35. Proper editing of these print formats using the internal Editor or the PC software application tool may be necessary for specific application requirements.

See the Supervisor menu in Figure 7.1 to see the default print formats assigned to each item and how to navigate to any item you wish to change.

Editing of a print format requires access to a password protected menu and will not be covered in this manual.

Default Report Print Format Numbers

Report	Ticket	Header	Body	Footer
Inbound	28	29	30	31
Outbound	27	33	34	35
Fleet	36	37	38	39

24. From ***rEPort***, press **TARE** …

Edit is displayed.

Lite menu

Truck ↓ Edit → Lite

25. From ***Edit***, press **UNITS** …

    LitE is displayed. This item allows configuration of set point 1 & 2 to control an external traffic light or device based on GTN operations.

Outputs #1 and #2 must be enabled for the set point controls to function properly.

26. Press ***SELECT*** …

    EnAbLE is displayed. Choose from these three options under enable:

    Manual BOTH the set point outputs #1 & #2 and the serial commands for the XR4500TL are controlled by the **START**/**STOP** keys.

    Auto BOTH the set point outputs #1 & #2 and the serial commands for the XR4500TL are controlled as follows:

    - Set point #1 is active for green light when scale is considered at ZERO while inside gross zero band, or when the **PRINT** key has been processed. (Scale Configuration Parameter)
    - Set point #2 is active for red light when gross weight is above the threshold value.
    - Set point #3 is available for standard configuration (cutoff) as long as the battery saver feature is not used.

    OFF Set point controls are controlled by standard configuration settings (cutoffs) and ONLY the XR4500TL works with the **START**/**STOP** keys.

27. From ***EnAbLE*** press the **UNITS** key …

    t-HoLd is displayed. This stands for Threshold. Use this to configure the weight value that must be exceeded for the light control to activate the red light (set point #2) when configured for the AUTO mode of operation.

START *key*
The ***START*** *key will update the XR4500 application print token (A65) to use characters that control the green light control command on a XR4500TL remote scoreboard equipped with the traffic light feature. The characters are included in the default print format that is assigned to Broadcast to the remote scoreboard display.*

STOP *key*
The ***STOP*** *key will update the XR4500 application print token (A65) to use characters that control the red light control command on a XR4500TL remote scoreboard equipped with the traffic light feature. The characters "@ & <CR>" are included in the default print format that is assigned to Broadcast to the remote scoreboard display.*

Print menu

Truck ↓ Edit → Lite → Print

28. From ***LitE***, press **UNITS** …

    Print is displayed. This menu item allows you to print the transaction reports. These selections are from the **REPORT** key but are also included in the Supervisor menu if the **REPORT** key is disabled.

    in rPt Prints the report of all the Trucks that have recorded an Inbound transaction but have yet to complete the Outbound transaction. Individual or all Inbound records can be cleared using the ***rESEt*** menu item explained on page 54.

    out rPt Prints the report of all the Truck ID's and associated totals that have completed an Outbound transaction. Individual or all Outbound records can be cleared using the ***rESEt*** menu item explained on page 54.

    FLt rPt Prints the report of all the Fleet Truck ID's and tare weights and associated totals. Individual or all Fleet records can be cleared using the ***rESEt*** menu item explained on page 54.

29. To exit the reports level, press **TARE** …

    Print is displayed.

Import

Truck ↓ Edit → Lite → Print → Import

The Import menu allows for transfer of a Truck Scale database file from a USB memory device when inserted into the USB port of the indicator.

For a typical truck scale operation the only reasons to import a database would be to:

- Add Fleet Truck ID's and Tare weight records into the scale without having to use the EDIT menu
- Edit existing totals to correct errors or missing weighments such as failure to record an Outbound transaction or using an incorrect Truck ID.

To successfully Import the truck scale database into the indicator the file must be in the proper CSV (comma separated value) format. To insure that the CSV file format is acceptable, the following procedure is recommended. Perform an In/Out transaction, and if the operation uses Fleet trucks, add at least one Fleet Truck ID / Tare weight in the EDIT menu. Then EXPORT the database file to the USB thumbdrive. The database file will show the required data fields that must be maintained.

Open the file using Excel and copy and paste a row containing the entered Truck values into the number of rows necessary. Edit the pasted rows with the required data and be sure to put 0's into unused columns.

Save the file on the thumbdrive and IMPORT back to the indicator to update the Truck database.

The USB thumbdrive must be installed before accessing the Import or Export menus.

30. From ***Print***, press **UNITS** …

    iMPort is displayed.

    Use the import menu to import the Truck Scale database file from a USB thumbdrive using the USB port of the indicator.

The database can contain up to 1000 separate truck records.

Importing a database file will overwrite all existing Truck records stored in the indicator. This database file includes all Truck In/Out and Fleet ID's, open Inbound transactions with time, date and weight, and Gross, Net, Tare, and Transaction Count totals for completed In/Out and Fleet transactions.

31. With ***iMPort*** displayed, press **SELECT** …

    buSY and ***donE*** are briefly displayed as the database file is imported. ***iMPort*** will be displayed when finished.

32. Press the **UNITS** key …

    EXPort is displayed. Use the export menu to export the Truck Scale database file to a USB thumbdrive using the USB port of the indicator.

Export

Truck ↓ Edit → Lite → Print → Import → Export

The Export menu allows for transfer of a CSV (Comma Separated Values) file containing the Truck Scale database to a USB memory device when inserted into the USB port of the indicator.

33. From ***EXPort***, press **SELECT** …

    buSY and ***donE*** are briefly displayed as the database file is exported. ***EXPort*** is displayed when finished.

34. Press the **UNITS** key …

    rESEt is displayed. The Reset menu lets you delete stored records in the truck database.

Below is a sample of a CSV file structure:

truckId	tareFleet	weight1	weight1date	weight1time	grossTotal	netTotal	tareTotal	transCount	units
111	0	0			300000	200000	100000	10	lb
222	0	0			800000	400000	400000	20	lb
123	12300	0			1500000	1000000	500000	30	lb
456	14550	0			39550	25000	14550	1	lb
1	11240	0			62480	40000	22480	2	lb
5	0	16210	2/3/2014	9:51:39	0	0	0	0	lb

Reset

Truck ↓ Edit → Lite → Print → Import → Export → Reset

35. From ***rESET***, press **SELECT** …

    in is displayed.

36. Press **UNITS** or **PRINT** to scroll through the choices: ***in***, ***io***, ***FLEEt*** or ***ALL***. With the type of record you want to clear or delete displayed, press **SELECT** …

    no is displayed.

37. Press **UNITS** to display ***YES*** and then press **ZERO** to clear the record …

    The display will show ***BUSY*** and then return to ***in***, ***out*** or ***FLEET*** depending on which menu item was selected

*Resetting the **IN** records will clear all stored Inbound records that have not yet completed an Outbound transaction.*

*Resetting the **OUT** records will delete all stored Truck I/O ID's and associated Totals.*

*Reset the **FLEET** records will delete all stored Fleet Truck ID's, Tare weights and associated Totals.*

*Deleting **ALL** will delete all the above Truck records from the database.*

38. Repeatedly press the **TARE** key …

    until ***trucK*** is displayed.

7.4 Battery

Super ↓ Setpoint → Tare → Truck → Battery

1. From ***trucK***, press **UNITS** …

   bAttErY is displayed. Use this to enable the battery and to set a timeout length (in minutes). If this time expires with no scale or keypad activity, setpoint #3 will change states so the battery will shut off if the proper external circuitry is provided. See the Service manual.

Enable

Battery ↓ Enable

*Only enable the battery and set the **tMout** value if the battery has the proper external shutoff circuitry. If battery use is enabled, setpoint output 3 cannot be used for setpoints in any application. It is used as a shutoff signal.*

2. Press **SELECT** …

   EnAbLE is displayed. Choices are ***oFF*** and ***on***. Choose ***oFF*** to disable battery usage. Choose ***on*** to enable battery usage.

3. Press **UNITS** to toggle between the choices and when your choice is displayed, press **ZERO** to accept …

   EnAbLE is displayed.

Timeout

Battery ↓ Enable → Timeout

4. Press **UNITS** …

   tMout is displayed. This stands for timeout. Use this to set the length of time before inactivity of the scale and keypad cause battery power to be shutoff. Values between 1 and 3600 minutes are valid. **This function only works if the battery has shutoff circuitry.**

5. Press **SELECT** …

   A numeric entry screen appears.

6. Key in a value, in minutes and press **ZERO** to accept …

   tMout is displayed.

7. This completes the Supervisor menu for General Weighing. Repeatedly press **TARE** until the indicator returns to normal weighing mode.

   The current weight value is displayed.

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