

ZM510

Indicator



User Instructions

Americas

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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

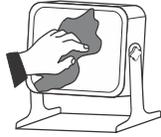


IMPORTANT: *This equipment must be routinely checked for proper operation and calibration. Application and usage will determine the frequency of calibration required for safe operation.*

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 édicté 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.



EN	EU Declaration of Conformity (R61)
Model / Type: ZM5xx / ZM6xx (R61)	
Name and address of the manufacturer: Avery Weigh-Tronix® ITW Ltd trading as Avery Weigh-Tronix Office House, Station Road, Egham, Surrey, TW20 9LB, England	
This declaration of conformity is based under the same conditions as the manufacturer's Declaration of Conformity.	
ZM65-SD3 / SP3 ZM610-SD4 / SP4 ZM665-SD4 / SP4 ZM615-SD5 / SP5	
The subject of the declaration described above is in conformity with the relevant Union harmonisation legislation:	
Applicable Directives Electromagnetic compatibility Electrical equipment designed for use with other technical specifications Restriction of the use of certain hazardous substances in electrical and electronic equipment	
2014/30/EU EN 10964-2:2007 2014/35/EU EN 60950-1:2006 2011/65/EU EN 50581:2012 2011/65/EU EN 50581:2012	
2014/32/EU OIML R81:2004 (M) WELMEC 2.1 WELMEC 2.8 WELMEC 7.2 WELMEC 8.9	
The notified body NMO 0126 has performed the approval for module B. EU-type examination (ANNEX II) of 2014/32/EU and related the verification.	
UK/0126/0197	
Additional information: Note 1: ITW Ltd trading as Avery Weigh-Tronix 1000 Armstrong Drive, Falmouth, MN, 56031-1439, USA on 2017-10-16	
K.Dierit Innovations/Marketing Director	

DE	EU-Konformitätserklärung (R61)
Modell / Typen: ZM5xx / ZM6xx (R61)	
Name und Anschrift des Herstellers: Avery Weigh-Tronix® ITW Ltd trading as Avery Weigh-Tronix Office House, Station Road, Egham, Surrey, TW20 9LB, England	
Dieser Erklärung der Konformität ist auf der Grundlage der Herstellererklärung der Konformität.	
ZM65-SD3 / SP3 ZM610-SD4 / SP4 ZM665-SD4 / SP4 ZM615-SD5 / SP5	
Der oben beschriebene Gegenstand der Erklärung erfüllt die einschlägigen Harmonisierungsvorschriften der Union:	
Anwendliche Richtlinien Elektromagnetische Verträglichkeit Elektrischer Betriebsmittel zur Verwendung in anderen technischen Spezifikationen Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten	
2014/30/EU EN 10964-2:2007 2014/35/EU EN 60950-1:2006 2011/65/EU EN 50581:2012 2011/65/EU EN 50581:2012	
2014/32/EU OIML R81:2004 (M) WELMEC 2.1 WELMEC 2.8 WELMEC 7.2 WELMEC 8.9	
Die notified Stelle NMO 0126 hat die Zulassung für Modul B durchgeführt. EU-Baumusterprüfung/ANNEX II (2014/32/EU) und die zugehörige Überprüfung durchgeführt.	
UK/0126/0197	
Zusätzliche Informationen: Anmerkungen 1: ITW Ltd trading as Avery Weigh-Tronix 1000 Armstrong Drive, Falmouth, MN, 56031-1439, USA am 2017-10-16	
K.Dierit Innovationen / Marketingdirektor	

FR	Déclaration UE de conformité (R61)
Modèle / Type: ZM5xx / ZM6xx (R61)	
Nom et adresse du fabricant: Avery Weigh-Tronix® ITW Ltd trading as Avery Weigh-Tronix Office House, Station Road, Egham, Surrey, TW20 9LB, England	
Cette déclaration de conformité est établie sous la responsabilité du fabricant.	
ZM65-SD3 / SP3 ZM610-SD4 / SP4 ZM665-SD4 / SP4 ZM615-SD5 / SP5	
L'objet de la déclaration décrit ci-dessus est conforme à la législation d'harmonisation de l'Union applicable:	
Les directives en vigueur Compatibilité électromagnétique Matériel électrique destiné à être employé dans certaines installations La limitation de l'utilisation de certaines substances dangereuses dans les équipements électroniques	
2014/30/EU EN 10964-2:2007 2014/35/EU EN 60950-1:2006 2011/65/EU EN 50581:2012 2011/65/EU EN 50581:2012	
2014/32/EU OIML R81:2004 (M) WELMEC 2.1 WELMEC 2.8 WELMEC 7.2 WELMEC 8.9	
L'organisme notifié NMO 0126 a effectué l'homologation pour le module B. EU-type examination (ANNEX II) de 2014/32/EU et la vérification correspondante.	
UK/0126/0197	
Informations complémentaires: Note 1: ITW Ltd trading as Avery Weigh-Tronix 1000 Armstrong Drive, Falmouth, MN, 56031-1439, USA le 2017-10-16	
K.Dierit Innovations / Directeur Marketing	

NL	EU-Conformiteitsverklaring (R61)
Model / Type: ZM5xx / ZM6xx (R61)	
Naam en adres van de fabrikant: Avery Weigh-Tronix® ITW Ltd trading as Avery Weigh-Tronix Office House, Station Road, Egham, Surrey, TW20 9LB, England	
Dit conformiteitsverklaring wordt verklaard onder de verantwoordelijkheid van de fabrikant.	
ZM65-SD3 / SP3 ZM610-SD4 / SP4 ZM665-SD4 / SP4 ZM615-SD5 / SP5	
Het hierboven beschreven voorwerp is in overeenstemming met de desbetreffende harmonisatiewetgeving van de Unie:	
Toepasselijke richtlijnen Electromagnetische compatibiliteit Elektrisch materiaal bestemd voor gebruik binnen bepaalde installaties Beperking van het gebruik van bepaalde stoffen in elektrische en elektronische apparaten	
2014/30/EU EN 10964-2:2007 2014/35/EU EN 60950-1:2006 2011/65/EU EN 50581:2012 2011/65/EU EN 50581:2012	
2014/32/EU OIML R81:2004 (M) WELMEC 2.1 WELMEC 2.8 WELMEC 7.2 WELMEC 8.9	
De aangemelde instantie NMO 0126 heeft de goedkeuring voor module B. EU-typeexamen (BILLAGE II) afgegeven op 2014/32/EU en de verificatie uitgevoerd.	
UK/0126/0197	
 aanvullende informatie: Note 1: ITW Ltd trading as Avery Weigh-Tronix 1000 Armstrong Drive, Falmouth, MN, 56031-1439, USA op 2017-10-16	
K.Dierit Innovations / Marketing Director	

IT	Dichiarazione di Conformità UE (R61)
Modello / Tipo: ZM5xx / ZM6xx (R61)	
Nome e indirizzo del fabbricante: Avery Weigh-Tronix® ITW Ltd trading as Avery Weigh-Tronix Office House, Station Road, Egham, Surrey, TW20 9LB, England	
La presente dichiarazione di conformità è rilasciata sotto la responsabilità del fabbricante.	
ZM65-SD3 / SP3 ZM610-SD4 / SP4 ZM665-SD4 / SP4 ZM615-SD5 / SP5	
L'oggetto della dichiarazione di cui sopra è conforme alla pertinente normativa di armonizzazione dell'Unione:	
Directive applicabili Compatibilità elettromagnetica Materiale elettrico destinato a essere adoperato entro limiti prestabiliti Restrizione dell'uso di determinate sostanze pericolose nelle apparecchiature elettriche ed elettroniche	
2014/30/EU EN 10964-2:2007 2014/35/EU EN 60950-1:2006 2011/65/EU EN 50581:2012 2011/65/EU EN 50581:2012	
2014/32/EU OIML R81:2004 (M) WELMEC 2.1 WELMEC 2.8 WELMEC 7.2 WELMEC 8.9	
L'ente notificato NMO 0126 ha dato l'approvazione del modulo B. Esame di tipo UE (ANNESSO II) 2014/32/EU e verifiche correlate.	
UK/0126/0197	
Informazioni supplementari: Note 1: ITW Ltd trading as Avery Weigh-Tronix 1000 Armstrong Drive, Falmouth, MN, 56031-1439, USA su 2017-10-16	
K.Dierit Innovations / Direttore Marketing	

ES	Declaración UE de Conformidad (R61)
Modelo / Tipo: ZM5xx / ZM6xx (R61)	
Nombre y dirección del fabricante: Avery Weigh-Tronix® ITW Ltd trading as Avery Weigh-Tronix Office House, Station Road, Egham, Surrey, TW20 9LB, England	
La presente declaración de conformidad es expedida bajo la responsabilidad del fabricante.	
ZM65-SD3 / SP3 ZM610-SD4 / SP4 ZM665-SD4 / SP4 ZM615-SD5 / SP5	
El objeto de la declaración de la que se refiere a la presente es conforme con la legislación de armonización pertinente de la Unión:	
Directivas aplicables Compatibilidad electromagnética Material eléctrico destinado a utilizarse con determinadas limitaciones Restricciones a la utilización de determinadas sustancias peligrosas en aparatos eléctricos y electrónicos	
2014/30/EU EN 10964-2:2007 2014/35/EU EN 60950-1:2006 2011/65/EU EN 50581:2012 2011/65/EU EN 50581:2012	
2014/32/EU OIML R81:2004 (M) WELMEC 2.1 WELMEC 2.8 WELMEC 7.2 WELMEC 8.9	
El organismo notificado NMO 0126 realizó la aprobación del módulo B. Tipo de examen UE (ANEXO II) de 2014/32/EU y verificación correspondiente.	
UK/0126/0197	
Información adicional: Note 1: ITW Ltd trading as Avery Weigh-Tronix 1000 Armstrong Drive, Falmouth, MN, 56031-1439, USA el 2017-10-16	
K.Dierit Innovaciones / Director de Marketing	



EN	EU Declaration of Conformity	ES	Declaración UE de Conformidad
Model / Type: ZM50x/ZM60x (RS1) Name and address of the manufacturer: Avery Weigh-Tronix ITW Ltd Foundry Lane Smeethwick West Midlands B66 2LP ENGLAND		Modelo / Tipo: ZM50x/ZM60x (RS1) Nombre y dirección del fabricante: Avery Weigh-Tronix ITW Ltd Foundry Lane Smeethwick West Midlands B66 2LP INGLA-TERRA	
This declaration of conformity is issued under the sole responsibility of the manufacturer. The object of the declaration described above is in conformity with the respective standards and specifications. ZM505-SD3 / SP3 ZM510-SD4 / SP4 ZM605-SD4 / SP4 ZM615-SD5 / SP5		La presente declaración de conformidad se emite bajo la responsabilidad exclusiva del fabricante. El objeto de la declaración descrita anteriormente se confirma con la legislación de armonización pertinente de la Unión. ZM505-SD3 / SP3 ZM510-SD4 / SP4 ZM605-SD4 / SP4 ZM615-SD5 / SP5	
Applicable Directives: Electromagnetic Compatibility 2014/53/EU EN 61000-4-2:2007 2014/32/EU EN 60950-1:2006 Electrical equipment designed for use with alternating current (voltagerelevant) +A11:2009 +A12:2011 +A2:2013 2011/65/EU EN 30501:2012 Restriction of the use of certain hazardous substances in electrical and electronic equipment 2011/65/EU OIML R51-1:2006 Measuring instruments (E) WELMEC 2.6 WELMEC 2.7 WELMEC 2.8 WELMEC 6.9		Directivas aplicables: Normas armonizadas u otras especificaciones técnicas 2014/53/EU EN 61000-4-2:2007 2014/32/EU EN 60950-1:2006 Material eléctrico destinado a utilizarse con corriente alterna (relevante de tensión) +A11:2009 +A12:2011 +A2:2013 2011/65/EU EN 30501:2012 Restricciones a la utilización de determinadas sustancias peligrosas en aparatos eléctricos y electrónicos 2011/65/EU OIML R51-1:2006 Instrumentos de medida (E) WELMEC 2.6 WELMEC 2.7 WELMEC 2.8 WELMEC 6.9	
The notified body NMO 0126 has performed the approval for CE marking in accordance with the requirements of Annex I to 2014/53/EU and issued the certificate: UK/0126/0223		El organismo notificado NMO 0126 realizó la aprobación de la conformidad de marcado CE de conformidad con los requisitos de la legislación de armonización pertinente de la Unión (ANEXO I de 2014/53/EU) y se le ha otorgado el certificado: UK/0126/0223	
Additional information: Note: ITW Ltd trading as Avery Weigh-Tronix Office registered at News House, Station Road, Egham, Surrey, TW20 9LB, England		Información adicional: Nota: ITW Ltd trading as Avery Weigh-Tronix Oficina registrada en News House, Station Road, Egham, Surrey, TW20 9LB, Inglaterra	
Signed for and on behalf of: Avery Weigh-Tronix at 1000 Armstrong Drive, Fairmont, MN, 56031-1439, USA on 2017-10-16  K. Diest Innovations/Marketing Director		Firmado en nombre de: Avery Weigh-Tronix en 1000 Armstrong Drive, Fairmont, MN, 56031-1439, EE.UU. el 2017-10-16  K. Diest Innovaciones / Director de Marketing	

IT	Dichiarazione di Conformità UE	IT	Dichiarazione di Conformità UE
Model / Type: ZM50x/ZM60x (RS1) Name and address of the manufacturer: Avery Weigh-Tronix ITW Ltd Foundry Lane Smeethwick West Midlands B66 2LP ENGLAND		Modelo / Tipo: ZM50x/ZM60x (RS1) Nombre y dirección del fabricante: Avery Weigh-Tronix ITW Ltd Foundry Lane Smeethwick West Midlands B66 2LP INGLA-TERRA	
This declaration of conformity is issued under the sole responsibility of the manufacturer. The object of the declaration described above is in conformity with the respective standards and specifications. ZM505-SD3 / SP3 ZM510-SD4 / SP4 ZM605-SD4 / SP4 ZM615-SD5 / SP5		La presente dichiarazione di conformità è rilasciata sotto la responsabilità esclusiva del fabbricante. L'oggetto della dichiarazione di conformità è conforme alle pertinenti norme armonizzate. ZM505-SD3 / SP3 ZM510-SD4 / SP4 ZM605-SD4 / SP4 ZM615-SD5 / SP5	
Applicable Directives: Electromagnetic Compatibility 2014/53/EU EN 61000-4-2:2007 2014/32/EU EN 60950-1:2006 Electrical equipment designed for use with alternating current (voltagerelevant) +A11:2009 +A12:2011 +A2:2013 2011/65/EU EN 30501:2012 Restriction of the use of certain hazardous substances in electrical and electronic equipment 2011/65/EU OIML R51-1:2006 Measuring instruments (E) WELMEC 2.6 WELMEC 2.7 WELMEC 2.8 WELMEC 6.9		Direttive applicabili: Norme armonizzate o altre specificazioni tecniche 2014/53/EU EN 61000-4-2:2007 2014/32/EU EN 60950-1:2006 Materiale elettrico destinato a essere utilizzato con corrente alternata (adatto per tensione) +A11:2009 +A12:2011 +A2:2013 2011/65/EU EN 30501:2012 Restrizioni dell'uso di determinate sostanze pericolose nelle apparecchiature elettriche ed elettroniche 2011/65/EU OIML R51-1:2006 Strumenti di misura (E) WELMEC 2.6 WELMEC 2.7 WELMEC 2.8 WELMEC 6.9	
The notified body NMO 0126 has performed the approval for CE marking in accordance with the requirements of Annex I to 2014/53/EU and issued the certificate: UK/0126/0223		L'ente notificato NMO 0126 ha effettuato l'approvazione del marchio CE di conformità con i requisiti dell'Annexo I del regolamento UE (ANEXO I de 2014/53/EU) e ha rilasciato il certificato: UK/0126/0223	
Additional information: Note: ITW Ltd trading as Avery Weigh-Tronix Office registered at News House, Station Road, Egham, Surrey, TW20 9LB, England		Informazioni supplementari: Nota: ITW Ltd trading as Avery Weigh-Tronix Sede registrata in News 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 2017-10-16  K. Diest Innovations / Direttore Marketing		Firmato in nome e per conto di: Avery Weigh-Tronix a 1000 Armstrong Drive, Fairmont, MN, 56031-1439, U.S.A. su 2017-10-16  K. Diest Innovations / Direttore Marketing	

NL	EU-Conformiteitsverklaring	NL	EU-Conformiteitsverklaring
Model / Type: ZM50x/ZM60x (RS1) Name and address of the manufacturer: Avery Weigh-Tronix ITW Ltd Foundry Lane Smeethwick West Midlands B66 2LP ENGLAND		Modelo / Tipo: ZM50x/ZM60x (RS1) Nombre y dirección del fabricante: Avery Weigh-Tronix ITW Ltd Foundry Lane Smeethwick West Midlands B66 2LP INGLA-TERRA	
This declaration of conformity is issued under the sole responsibility of the manufacturer. The object of the declaration described above is in conformity with the respective standards and specifications. ZM505-SD3 / SP3 ZM510-SD4 / SP4 ZM605-SD4 / SP4 ZM615-SD5 / SP5		Deze conformiteitsverklaring wordt verstrekt onder uitsluitende aansprakelijkheid van de fabrikant. Het object van de verklaring is in overeenstemming met de desbetreffende normen en specificaties. ZM505-SD3 / SP3 ZM510-SD4 / SP4 ZM605-SD4 / SP4 ZM615-SD5 / SP5	
Applicable Directives: Electromagnetic Compatibility 2014/53/EU EN 61000-4-2:2007 2014/32/EU EN 60950-1:2006 Electrical equipment designed for use with alternating current (voltagerelevant) +A11:2009 +A12:2011 +A2:2013 2011/65/EU EN 30501:2012 Restriction of the use of certain hazardous substances in electrical and electronic equipment 2011/65/EU OIML R51-1:2006 Measuring instruments (E) WELMEC 2.6 WELMEC 2.7 WELMEC 2.8 WELMEC 6.9		Toepasselijke richtlijnen: Normen en specificaties 2014/53/EU EN 61000-4-2:2007 2014/32/EU EN 60950-1:2006 Elektrisch materiaal bestemd voor gebruik met wisselstroom (spanningsrelevant) +A11:2009 +A12:2011 +A2:2013 2011/65/EU EN 30501:2012 Beperking van het gebruik van bepaalde stoffen in elektrische en elektronische apparatuur 2011/65/EU OIML R51-1:2006 Meetinstrumenten (E) WELMEC 2.6 WELMEC 2.7 WELMEC 2.8 WELMEC 6.9	
The notified body NMO 0126 has performed the approval for CE marking in accordance with the requirements of Annex I to 2014/53/EU and issued the certificate: UK/0126/0223		De aangemerkte Staat NMO 0126 heeft de goedkeuring van de CE-markering uitgevoerd conform de eisen van bijlage I van Richtlijn 2014/53/EU en het officieel certificaat: UK/0126/0223	
Additional information: Note: ITW Ltd trading as Avery Weigh-Tronix Office registered at News House, Station Road, Egham, Surrey, TW20 9LB, England		Aanvullende informatie: Nota: ITW Ltd trading as Avery Weigh-Tronix Kantoor geregistreerd in News House, Station Road, Egham, Surrey, TW20 9LB, Engeland	
Signed for and on behalf of: Avery Weigh-Tronix at 1000 Armstrong Drive, Fairmont, MN, 56031-1439, USA on 2017-10-16  K. Diest Innovations / Marketing Director		Ondertekend voor en namens: Avery Weigh-Tronix bij 1000 Armstrong Drive, Fairmont, MN, 56031-1439, VS op 2017-10-16  K. Diest Innovaties / Marketing Director	

FR	Déclaration UE de Conformité	FR	Déclaration UE de Conformité
Model / Type: ZM50x/ZM60x (RS1) Name and address of the manufacturer: Avery Weigh-Tronix ITW Ltd Foundry Lane Smeethwick West Midlands B66 2LP ENGLAND		Modelo / Tipo: ZM50x/ZM60x (RS1) Nombre y dirección del fabricante: Avery Weigh-Tronix ITW Ltd Foundry Lane Smeethwick West Midlands B66 2LP INGLA-TERRA	
This declaration of conformity is issued under the sole responsibility of the manufacturer. The object of the declaration described above is in conformity with the respective standards and specifications. ZM505-SD3 / SP3 ZM510-SD4 / SP4 ZM605-SD4 / SP4 ZM615-SD5 / SP5		L'objet de la déclaration de conformité est émis sous la responsabilité exclusive du fabricant. L'objet de la déclaration de conformité est conforme à la législation de l'Union européenne. ZM505-SD3 / SP3 ZM510-SD4 / SP4 ZM605-SD4 / SP4 ZM615-SD5 / SP5	
Applicable Directives: Electromagnetic Compatibility 2014/53/EU EN 61000-4-2:2007 2014/32/EU EN 60950-1:2006 Electrical equipment designed for use with alternating current (voltagerelevant) +A11:2009 +A12:2011 +A2:2013 2011/65/EU EN 30501:2012 Restriction of the use of certain hazardous substances in electrical and electronic equipment 2011/65/EU OIML R51-1:2006 Measuring instruments (E) WELMEC 2.6 WELMEC 2.7 WELMEC 2.8 WELMEC 6.9		Les directives en vigueur: Normes harmonisées ou autres spécifications techniques 2014/53/EU EN 61000-4-2:2007 2014/32/EU EN 60950-1:2006 Matériel électrique destiné à être employé dans un réseau à tension alternative (pertinence de tension) +A11:2009 +A12:2011 +A2:2013 2011/65/EU EN 30501:2012 La limitation de l'utilisation de certaines substances dangereuses dans les équipements électriques et électroniques 2011/65/EU OIML R51-1:2006 Instruments de mesure (E) WELMEC 2.6 WELMEC 2.7 WELMEC 2.8 WELMEC 6.9	
The notified body NMO 0126 has performed the approval for CE marking in accordance with the requirements of Annex I to 2014/53/EU and issued the certificate: UK/0126/0223		L'organisme notifié NMO 0126 a effectué l'homologation de la conformité de marquage CE conformément aux exigences de l'Annexe I de la directive UE (ANNEXE I de 2014/53/EU) et a établi le certificat: UK/0126/0223	
Additional information: Note: ITW Ltd trading as Avery Weigh-Tronix Office registered at News House, Station Road, Egham, Surrey, TW20 9LB, England		Informations complémentaires: Note: ITW Ltd trading as Avery Weigh-Tronix Office enregistré à News House, Station Road, Egham, Surrey, TW20 9LB, Angleterre	
Signed for and on behalf of: Avery Weigh-Tronix at 1000 Armstrong Drive, Fairmont, MN, 56031-1439, USA on 2017-10-16  K. Diest Innovations / Directeur Marketing		Signé par et au nom de: Avery Weigh-Tronix à 1000 Armstrong Drive, Fairmont, MN, 56031-1439, USA le 2017-10-16  K. Diest Innovations / Directeur Marketing	

DE	EU-Konformitätserklärung	DE	EU-Konformitätserklärung
Model / Type: ZM50x/ZM60x (RS1) Name and address of the manufacturer: Avery Weigh-Tronix ITW Ltd Foundry Lane Smeethwick West Midlands B66 2LP ENGLAND		Modelo / Tipo: ZM50x/ZM60x (RS1) Nombre y dirección del fabricante: Avery Weigh-Tronix ITW Ltd Foundry Lane Smeethwick West Midlands B66 2LP INGLA-TERRA	
This declaration of conformity is issued under the sole responsibility of the manufacturer. The object of the declaration described above is in conformity with the respective standards and specifications. ZM505-SD3 / SP3 ZM510-SD4 / SP4 ZM605-SD4 / SP4 ZM615-SD5 / SP5		Diese Erklärung der Konformität ist ausschließlich die Verantwortung des Herstellers. Der Gegenstand der Erklärung ist mit den jeweiligen Normen und anderen technischen Spezifikationen konform. ZM505-SD3 / SP3 ZM510-SD4 / SP4 ZM605-SD4 / SP4 ZM615-SD5 / SP5	
Applicable Directives: Electromagnetic Compatibility 2014/53/EU EN 61000-4-2:2007 2014/32/EU EN 60950-1:2006 Electrical equipment designed for use with alternating current (voltagerelevant) +A11:2009 +A12:2011 +A2:2013 2011/65/EU EN 30501:2012 Restriction of the use of certain hazardous substances in electrical and electronic equipment 2011/65/EU OIML R51-1:2006 Measuring instruments (E) WELMEC 2.6 WELMEC 2.7 WELMEC 2.8 WELMEC 6.9		Anwendbare Richtlinien: Normen und andere technische Spezifikationen 2014/53/EU EN 61000-4-2:2007 2014/32/EU EN 60950-1:2006 Elektrische Betriebsmittel zur Verwendung mit Wechselstrom (spannungsrelevant) +A11:2009 +A12:2011 +A2:2013 2011/65/EU EN 30501:2012 Beschränkung der Verwendung bestimmter gefährlicher Stoffe in elektrischen und elektronischen Geräten 2011/65/EU OIML R51-1:2006 Messinstrumente (E) WELMEC 2.6 WELMEC 2.7 WELMEC 2.8 WELMEC 6.9	
The notified body NMO 0126 has performed the approval for CE marking in accordance with the requirements of Annex I to 2014/53/EU and issued the certificate: UK/0126/0223		Die notifizierte Stelle NMO 0126 hat die Zustimmung für CE-Markierung in Übereinstimmung mit den Anforderungen von Anhang I der Richtlinie 2014/53/EU durchgeführt und das Zertifikat ausgestellt: UK/0126/0223	
Additional information: Note: ITW Ltd trading as Avery Weigh-Tronix Office registered at News House, Station Road, Egham, Surrey, TW20 9LB, England		Zusatzangaben: Anmerkung: ITW Ltd handelt als Avery Weigh-Tronix Sitz: News 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 2017-10-16  K. Diest Innovations / Marketing Director		Unterzeichnet für und im Namen von: Avery Weigh-Tronix bei 1000 Armstrong Drive, Fairmont, MN, 56031-1439, USA am 2017-10-16  K. Diest Innovationen / Marketing Director	

EN	EU Declaration of Conformity	EN	EU Declaration of Conformity
Model / Type: ZM50x/ZM60x (RS1) Name and address of the manufacturer: Avery Weigh-Tronix ITW Ltd Foundry Lane Smeethwick West Midlands B66 2LP ENGLAND		Modelo / Tipo: ZM50x/ZM60x (RS1) Nombre y dirección del fabricante: Avery Weigh-Tronix ITW Ltd Foundry Lane Smeethwick West Midlands B66 2LP ENGLAND	
This declaration of conformity is issued under the sole responsibility of the manufacturer. The object of the declaration described above is in conformity with the respective standards and specifications. ZM505-SD3 / SP3 ZM510-SD4 / SP4 ZM605-SD4 / SP4 ZM615-SD5 / SP5		This declaration of conformity is issued under the sole responsibility of the manufacturer. The object of the declaration described above is in conformity with the respective standards and specifications. ZM505-SD3 / SP3 ZM510-SD4 / SP4 ZM605-SD4 / SP4 ZM615-SD5 / SP5	
Applicable Directives: Electromagnetic Compatibility 2014/53/EU EN 61000-4-2:2007 2014/32/EU EN 60950-1:2006 Electrical equipment designed for use with alternating current (voltagerelevant) +A11:2009 +A12:2011 +A2:2013 2011/65/EU EN 30501:2012 Restriction of the use of certain hazardous substances in electrical and electronic equipment 2011/65/EU OIML R51-1:2006 Measuring instruments (E) WELMEC 2.6 WELMEC 2.7 WELMEC 2.8 WELMEC 6.9		Applicable Directives: Normas armonizadas u otras especificaciones técnicas 2014/53/EU EN 61000-4-2:2007 2014/32/EU EN 60950-1:2006 Material eléctrico destinado a utilizarse con corriente alterna (relevante de tensión) +A11:2009 +A12:2011 +A2:2013 2011/65/EU EN 30501:2012 Restricciones a la utilización de determinadas sustancias peligrosas en aparatos eléctricos y electrónicos 2011/65/EU OIML R51-1:2006 Instrumentos de medida (E) WELMEC 2.6 WELMEC 2.7 WELMEC 2.8 WELMEC 6.9	
The notified body NMO 0126 has performed the approval for CE marking in accordance with the requirements of Annex I to 2014/53/EU and issued the certificate: UK/0126/0223		El organismo notificado NMO 0126 realizó la aprobación de la conformidad de marcado CE de conformidad con los requisitos de la legislación de armonización pertinente de la Unión (ANEXO I de 2014/53/EU) y se le ha otorgado el certificado: UK/0126/0223	
Additional information: Note: ITW Ltd trading as Avery Weigh-Tronix Office registered at News House, Station Road, Egham, Surrey, TW20 9LB, England		Información adicional: Nota: ITW Ltd trading as Avery Weigh-Tronix Oficina registrada en News 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 2017-10-16  K. Diest Innovations/Marketing Director		Firmado en nombre de: Avery Weigh-Tronix en 1000 Armstrong Drive, Fairmont, MN, 56031-1439, USA el 2017-10-16  K. Diest Innovaciones/Marketing Director	

2 Introduction

The ZM510 indicator is a powerful, programmable indicator with a default accumulator weighing application. The application database can store 200 accumulation channels. This manual will explain operation of the indicator and the weighing application.

This indicator is suitable for the office, dusty, wet or high pressure and heavy washdown environments. It comes in IP69K stainless steel desktop and IP66 panel mount housings. Both have a high contrast, graphic display for text and graphic messages appropriate to the function of the program.

The ZM510 indicator can support up to four scales for a total of 24 - 350 ohm load cells. The indicator requires a line voltage of 90 - 264 VAC, 50 or 60 Hz or 12-36VDC. The standard indicator connectivity includes two USB Host, three serial ports and an Ethernet port.



Panel mount equipment to be powered by a UL Listed I.T.E. power supply: rated 12-36VDC and marked "LPS, or a UL Listed power supply rated 12-36VDC and marked "Class 2."

Available options include:

- Analog Output kit
- Current Loop kit: Current loop and RS485/RS422
- USB Device kit: Provides USB interface to PC
- DeviceNet™
- ProfiBus®
- Wireless 802.11g
- Internal 120 VAC relay
- 2nd Scale Input 5VDC Excitation w/o STVS
- 2nd Scale Input 10 VDC Excitation w/STVS
- External I/O Interface (for existing GSE or 1310 I/O cards)
- AC input, 4 Inputs (120-240VAC)
- DC input, 4 inputs(4-30VDC)
- AC output, 4 relays (20-240VAC, 1 amp max)
- DC output, 4 relays (3-60VDC, 2 amp max))

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

Figure 2.1 shows the front panel of the ZM510 indicator which consists of the keys and the graphic display.



Figure 2.1 ZM510 front panel



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

2.1 Front Panel Keys

The key functions are listed below.

	Press the TARE key to perform a pushbutton tare function. Acts as an up arrow key for menu navigation.
	Press the SELECT key to toggle between the active display values. Acts as a down 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 in setup mode.
	Press the PRINT key 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.
	Use the F1 through F5 keys as defined by the label above each one on the display. The functions change according to program need.
	Use the alphanumeric keypad for entering text or numbers.
	Press the CAPS key to make one upper case letter. Press and hold the key to turn on the CAPS lock. CAPS will be highlighted when the CAPS lock is on. Press CAPS again to return to lower case characters.
	Press the Num Lock key to type in one number. Press and hold the key to turn on the Num Lock to enter multiple numbers in a row. NUM will be highlighted on the display when the Num Lock is on. Press Num Lock again to unlock.
	Press the ENTER key to accept a displayed choice. In setup mode it will accept a displayed choice or access a lower menu level.
	Press the START key to start a process defined by the active program.
	The SETUP key can be used to perform custom application functions. It can also be used to view the password entry screen for menu access.
	Press the STOP key to stop a process defined by the active program.
	The SCALE key can be used to perform custom application functions. It can also be used to select the active scale when more than one scale is enabled.

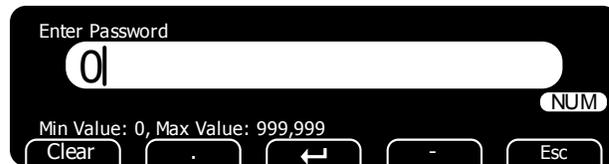
2.2 Powering up a ZM510 indicator

The indicator is always active as long as power is received. Power must be 90-264 VAC with a frequency of 50 or 60 Hz, or 12-36 VDC. The default power up screen is shown below:



2.3 Menu access and navigation

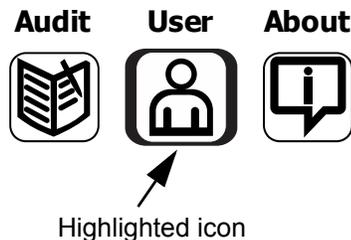
The menus used to configure the ZM510 are accessed with passwords. Press and hold the **SETUP** key to access the password entry screen, shown below.



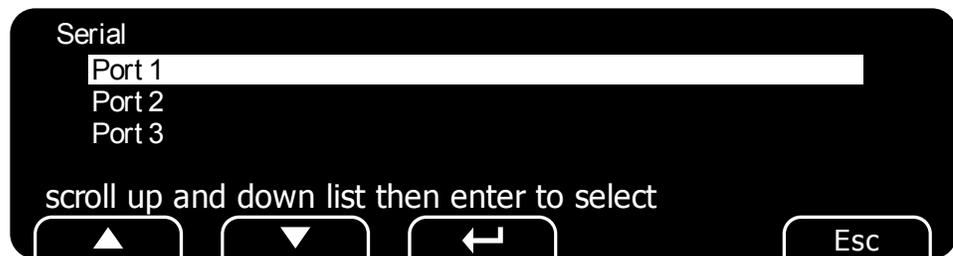
In general, a menu is made up of a group of top level items, sub levels under each of those and lists of items to view or configure. There are variations on this theme. Sometimes there may be no sub level or there maybe two sub levels before you get to a list of items to set.

You will see on-screen lists with instructions on how to choose and set an item in each menu list. On-screen prompts guide you as you move through the menus.

When icons are on screen the bold box around an icon means it is the highlighted icon. See the example below.



When a text list appears on screen the highlighted item is shown by a highlight bar over the text. See the example below.



The main menu is made up of the User, About and Audit menus. See Chapter 4 for complete information.

2.3.1 Escaping or exiting from a menu

In any menu you will have either **UP** or **ESC** keys listed on-screen.

If **ESC** is listed use it until it disappears then use the **UP** key until you are asked if you want to save any changes or not. Highlight your choice and press **ENTER** to accept.

The indicator will reboot and return to the startup screen.

2.4 Adjusting screen contrast

To decrease or increase the screen contrast press and hold the **UNITS** key and press the **TARE** (UP arrow) or **SELECT** (DOWN arrow) key repeatedly.

2.5 Remote input operation

Input 1 is setup for **ZERO** key operation.

Input 2 is setup for **TARE** key operation.

Input 3 is setup for **PRINT** key operation. This will trigger the print function and accumulate the weight and transaction counter while in the Accumulation application.

3 Operating Instructions

The ZM510 provides multiple tare memory, transaction counter and weight accumulator.



SELECT key default function: You can view the gross, net, tare, gross total, net total, tare total and transaction total display values or other configured scale parameters by repeatedly pressing **SELECT**.

3.1 Power Up

When the indicator is powered up, you will see the startup screen for the Accumulation application, shown below:



3.2 Accumulation weighing application

Gross and net weighing are covered first below followed by the instructions for the Accumulation app.

3.2.1 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, if necessary, 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.

3.2.2 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** and then enter a stored Preset Tare number (1 - 10) and press **ZERO** to set.



Pushbutton and Entered Tares can be enabled simultaneously.

Auto Tare Clear

If auto tare clear 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.

Using Pushbutton Tare

To perform a net weighment using pushbutton tare, power up the unit and 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. Place item to be tared on the scale ...
Weight is displayed.
3. Press **TARE** ...
0 is displayed and the *NET* weight is displayed.
4. Place material to be weighed into or on the tared item on the scale ...
Net weight of material is displayed.
5. Repeatedly press **SELECT** to view the gross, tare, and net values.
6. If repeated weighments use the same tared item, you do not need to establish a new tare value as described in step 2 and 3.



*Pressing **TARE** will perform the tare function but if you continue to press and hold **TARE** for 3 seconds the display will show **cLEARed** and the Tare weight is cleared.*



*If gross weight is not at 0, press the **ZERO** key; then press the **TARE** key to clear the tare value.*

Using Entered Tare

To perform a net weightment 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-zero* 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* weight is display and the PT 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.



Press and hold **TARE** for 3 seconds and the display will show **cLEARed** and the Tare weight is cleared.

Using Preset Tare

Preset tares are entered in a password protected menu. Refer to details described in the [Supervisor menu on page 28](#). There are 10 tare values stored in memory. To perform a net weightment 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** ...
EntEr is displayed.
3. Key in the desired preset tare number and press **ZERO** ...
Tare weight is displayed as a negative value and the net weight is displayed and the PT annunciator lights.
4. Place container or box and material to be weighed on the scale ...
Net weight of material is displayed.

Step 4 can be done prior to step 2 if desired.



When the item is removed from the scale the Tare is cleared automatically if Auto Tare Clear is enabled. To remove the tare weight manually, select a preset tare ID that has a value of 0 for the tare or press and hold **TARE** for three seconds.



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)

3.2.3 Using the Accumulation function

In the accumulator application the following softkeys are displayed and have the functions described. Following that are in depth instructions for using them.

- CHAN key (F1)** Press this key to use the key pad and key in the desired accumulator channel number (7 characters max).
- ID key (F3)** Press this key and key in the desired ID number (7 digits max).
- SETPT key (F5)** Press this key to set the setpoint or output values.

PRINT key A brief key press, or triggering input #3, accumulates and transmits data out serial port #1 (See sample below).

Chan. #	1
Trans #	2
Gross	52 lb
Tare	25 lb
Net	27 lb

Press and hold the **PRINT** key to print the Total Format shown below (if enabled in the supervisor menu):

Chan. #	1
Trans #	2
Gross Total	1077 lb
Tare Total	50 lb
Net Total	1027 lb

CHAN key (F1)

1. Press this key and the alphanumeric entry screen appears.



2. Key in the Channel number and press the **ENTER** key.



*Remember to press the **Num Lock** key to enable the numeric keys.*

The main screen appears with your chosen channel number displayed.



ID key (F3)

1. Press the **ID** key to enter an ID number. The following screen appears.



2. Use the keypad on the ZM510 to enter up to seven digits for the ID. When you have entered the ID, press the **ENTER** key and the following is displayed ...



SETPT key (F3)

1. Press and hold the **SELECT** key ...
 - out1** is displayed followed by the current weight value for set point 1.
2. Press **ENTER** to accept the displayed value or key in a new value and press **ENTER** to accept.
 - out2** is displayed followed by the current weight value for set point 2.
3. Press **ENTER** to accept the displayed value or key in a new value and press **ENTER** to accept.
 - out3** is displayed followed by the current weight value for set point 3.
4. Press **ENTER** to accept the displayed value or key in a new value and press **ENTER** to accept.

The indicator returns to the normal weighing mode

3.2.4 Performing Accumulation weighments

The accumulator application can be used to record totals of individual weighments.

Follow these steps:

1. Press **ZERO** to zero the scale, if necessary ...

0 is displayed.

2. Place empty container on the scale and press **TARE** ...
Net weight is displayed.
3. Place item on the scale. Press **PRINT** to add this weight to the accumulator and to print the configured print format ...
The *PRINT* annunciator lights briefly and **Acc** is briefly displayed.
4. Remove weight from the scale. Weight must return to inside the gross zero band before another print and accumulation can be recorded.
5. Repeat steps 3 and 4 for each weight you want to accumulate.

If enabled, press and hold the **PRINT** key to transmit current active total channel data out serial port #1. This will also clear the current active channel data if the clear feature is enabled under the Supervisor's Menu.

4 Menus

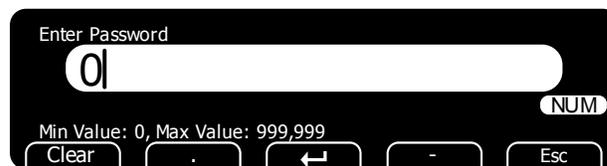
The ZM510 three user accessible menus:

- **User** menu - Use to set Time, Date, Site ID, check Seal status and check Archive information.
- **About** menu - Use to see information on the software, firmware, application, serial number, options, ethernet and downloads
- **Audit** menu - Use this to check and/or print the calibration and configuration counters.

The password for these menus is 111. Follow these steps to access and use these menus.

1. Press and hold the **SETUP** key until ...

This password entry screen appears:



2. Key in 111 and press the **ENTER** key ...

This screen is displayed:



The bold box around the center image means that is the highlighted menu item.

3. Use the **Left** and **Right** keys to highlight the menu you want to enter and press the **ENTER** key. Below are the explanations for these menus.

4.1 User menu

When the User menu is selected, these choices appear:



The Archive menu item appears only if configured in a password protected menu by a supervisor or distributor.

Use the **Left** and **Right** keys to highlight the menu item you want to access and press the **ENTER** key.

Time **Set** - Use the numeric keys to enter the correct time in the style chosen below.

Style - Choose the style of time display from these choices:

- 12HR - Shows time in the 12 hour style
- 12HR-AP - Shows time in the 12 hour style with AM/PM
- 24HR - Shows time in the 24 hour style

Date **Set** - Use the numeric keys to enter the correct date in the style chosen below.

Style - Choose the style of date display from these choices:

- MMDD2Y
- MMDD4Y
- DDMM2Y
- DDMM4Y



The date format is how the date is stored internally. Printed dates will appear as programmed in the selected print format.

Site ID Use the alphanumeric keys to enter a Site ID, up to six characters.

Seal Shows the status of the physical seal jumper inside the indicator: **SEAL** or **NO SEAL**. If the unit is sealed, no changes can be made to the configuration of the indicator.

Archive This item appears only if so configured in the ADMIN password protected menu. This stands for electronic archive. In other regions it is known as an alibi memory or tally roll. These will be transmitted via configured communications ports. These reports can be used to confirm a weighment if it is ever in dispute. Only records that are qualified as a LEGAL record, per site motion criteria, are considered as entries to this log.



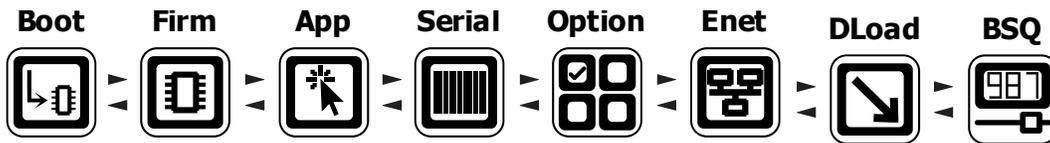
The indicator has memory capacity to store approximately 5,000 transactions.

The Archive report uses a rolling memory configuration (FIFO) so the oldest transaction will be written over first when all the memory slots are filled.

You can exit the menu by following the instructions in *Escaping or exiting from a menu* on page 16.

4.2 About menu

If you access the About menu you will see this menu:



Definitions:

Bootloader Software that makes the electronics run.

Firmware Embedded system software that creates core functions of the product.

App Specific software that controls the behaviour for a given installation.

Use the **Left** and **Right** keys to highlight the menu item you want to access and press the **ENTER** key.

Boot **PartNo** - See the bootloader part number.
Version - See the version of the bootloader.

Firm **PartNo** - See the firmware part number.
Version - See the version of the firmware.

App **PartNo** - See the application part number.
Version - See the version of the application.

Serial See the serial number of the indicator.

Option **Bus 1 or 2** - Choose the Bus of the option card.
Card 1 or 2 - Choose the Card you want to view.

- **Type** - View the type of card.
- **Version** - View the firmware version of the card.

Enet This stands for Ethernet. Use this to view the network addresses:

IP Addr - See the IP address.
Subnet - See the Subnet address.
Gateway - See the Gateway address.
MAC - See the MAC address.

DLoad This stands for download. Use this to view the following:

sSerial - View the license number that created the configuration file.
dSerial - View the license number that downloaded the configuration file.
dName - View the company name for the license shown for downloading.

This is used for security and licensing purposes.

BSQ **Scale X** - Choose the scale.

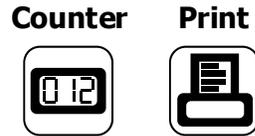
- **SW Part** - View the firmware part number of the cell that is connected.
- **Version** - View the firmware version of the cell that is connected.
- **Cur. Ser** - View the serial number of the cell that is connected.

- **Cal. Ser** - View the serial number of the cell that WAS connected at the time of calibration.

You can exit the menu by following the instructions in *Escaping or exiting from a menu on page 16*.

4.3 Audit menu

If you access the Audit menu you will see this menu:



Counter **Config** - See the number of configurations the indicator has undergone.
Calib - See the number of calibrations the indicator has undergone.

Print Use this to select which port to print the audit report through. The audit report will contain both Config and Calib information. Choices are:

Port 1 Under **Port 1** choose to print to a column or ticket printer.

Port 2 Under **Port 2** choose to print to a column or ticket printer.

USB Printing to USB requires that a USB flash drive is connected to the indicator host USB. Printing to USB will create a folder on the flash drive and a comma separated file with the data.

You can exit the menu by following the instructions in *Escaping or exiting from a menu on page 16*.

5 Error messages

In order to complete the weighing process, a number of conditions must be met. The following messages may appear which may prevent completion of the weighing sequence.

5.1 Printing errors

<i>Timeout</i>	Something interfered with the printing process. Check connections and retry.
<i>Print Error</i>	Something interfered with the printing process. Check connections and retry.
<i>Print Aborted</i>	Something interfered with the printing process. Check connections and retry.
<i>Print Failed</i>	Something interfered with the printing process. Check connections and retry.

5.2 'Copying to or from USB' errors

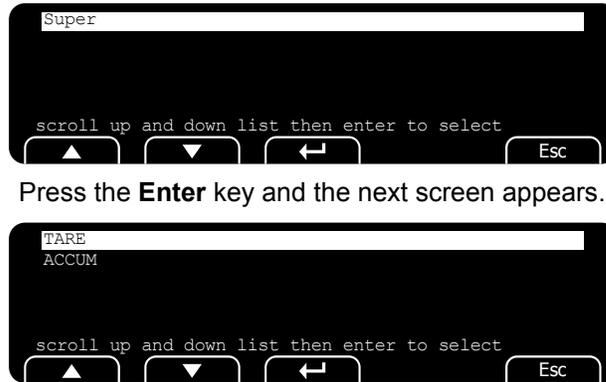
<i>Failed to Copy File</i>	Something interfered with the copy process. Check USB device.
<i>Can't Close database</i>	Software error. Restart indicator.
<i>File Not Found</i>	File doesn't exist. Create the database.

5.3 BSQ errors

<i>BSQ Error</i>	Communications error
<i>BSQ XCAL</i>	BSQ Calibration Mismatch Error - cell that is connected to the scale is not the cell that was calibrated.

6 Supervisor menu

The supervisor menu, shown in [Figure 6.1](#) allows access to the items related to the Accumulation application.



Press the **Enter** key and the next screen appears.

The **TARE** item appears only if Preset Tares are enabled.

Figure 6.1 Supervisor menu

Press and hold the **SETUP** key until the password entry screen appears. Enter the Supervisor password, 1793 and press the **ZERO** key.

Highlight the item you wish to set and press the **Enter** key. The definitions of each item in the Supervisor menu are described below.

- SuPEr** This is the top item in the Supervisor menu.
- tArE** This item appears only if Preset Tares are enabled. Use this to enter tare weights for up to 10 Preset Tares.
 - Edit** Use this to set the tare weight for Tare 1 through Tare 10.
 - Print** Use this to print the tare list to your desired port or to the USB port. See *Printed Preset Tare report example on page 29*.
 - rESEt** Use this to clear all tares in memory.



If the Preset Tare list has been reset and you print the Preset Tare report the 10 memory channels will be listed but all the weights will be 0.

- AccuM** Use this item to set the accumulation paramaters below.
- Prt Tot** This stands for Print Total. If enabled, during normal operation the user can press and hold **PRINT** for three seconds and the selected print format (see **Tot Fmt** section below) will be sent to any port that is configured. The display will flash **Prn-tot**.
- Tot Fmt** This stands for Total Format. This is the designated print format number used for the accumulated totals of the current active channel. (Format 8 is the default).

Clr Tot This stands for Clear Total. If enabled, during normal operation the totals for the active channel will be cleared after you press and hold of the **PRINT** key for three seconds. The clearing will occur after printing of the Totals (if enabled). The message **cLr-tot** will flash on the display.

Print Select the destination the 200-channel report will be transmitted to. Choices are: **Port 1**, **Port 2** or **USB**. See a sample report below.

Channel	ID	Gross Total	Net Total	Tare	Total Transactions	Units
1	111	1077.000000	1027.000000	50.000000	2	lb
2	0	0.000000	0.000000	0.000000	0	lb
3	0	0.000000	0.000000	0.000000	0	lb
4	0	0.000000	0.000000	0.000000	0	lb
5	0	0.000000	0.000000	0.000000	0	lb
6	0	0.000000	0.000000	0.000000	0	lb
7	0	0.000000	0.000000	0.000000	0	lb
8	0	0.000000	0.000000	0.000000	0	lb
9	0	0.000000	0.000000	0.000000	0	lb
10	1010	2966.000000	2524.000000	442.000000	3	lb

rESet This clears the entire 200-channel database.

This completes the Supervisor menu. To return to normal mode repeatedly press the **ESC** key to exit.

6.1 Printed Preset Tare report example

Tare Index	Preset Tare	
1	500	lb
2	0	lb
3	0	lb
4	0	lb
5	0	lb
6	0	lb
7	0	lb
8	0	lb
9	0	lb
10	0	lb

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