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STANDARD FEATURE M Operator input via a tactile feedback, 2 position membrane keyboard. M pan, zero, and shift adjust calibration data can be printed, recalled and entered from the keyboard in the setup mode. M The 853 supports pound lb, kilogram kg or ton t weight units with units switching between lb and kg weight units. M Keyboard entered tare and or pushbutton autotare are supported. Additive, chain tare is supported for repeated keyboard entered tare weight. M Time and Date, Consecutive numbering, setpoint data, numeric ID, and stored tare weight data are stored in battery backed memory to prevent loss of data during a power outage. M A digital filter provides a more stable weight reading in the presence of vibration. M Auto zero maintenance AZM automatically compensates for small changes in gross zero. M The pushbutton zero function is available to permit the operator to compensate for changes in gross zero. Display or output of weight data is inhibited until zero has been captured after a power loss. M The 853 continuously tests its internal circuitry and the DigiTOL load cells. Comprehensive error reporting assists in troubleshooting malfunctions. AZM, pushbutton zero, tare and print functions are inhibited when the weight display is unstable. M The 853 provides, battery backed, memory address that can be used for temporary or permanent stored tare weights. M The JN serial port provides R232C and 2mA current loop, bidirectional serial communication interfaces with demand or continuous data output formats. M When a serial port is programmed for the continuous mode, a fixed format message with weight and status information is output every display update. The continuous output mode is intended for remote display, setpoint, or real time computer interfacing applications.

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M The demand mode output provides a flexible ticket format that is compatible with METTLER TOLEDO Printers, Models 886, 8844, 8856, 886 and M Print interlock prevents printing multiple copies of the same transaction. If print interlock is enabled, the weight on the scale must return to zero and a new weight be placed on the scale before printing can occur. M Time, date, consecutive numbering, and a 2 digit numeric ID data field can be printed. M single ASCII character serial input commands, are accepted for remote CLEAR, PRINT, TARE and ZERO functions. M The 853 provides

a subtotal and total accumulator selectable for net, gross or displayed weight with consecutive numbering. M The 853 provides four, single speed, setpoint cutoff outputs when combined with the METTLER TOLEDO Model 35 setpoint Controller. Note Only one of the two ports JN or JW can be configured for demand mode output. Both the JN and JW ports can be configured for continuous mode output without a problem. Data communication takes place over two wires identified as COM A and COM B. The data lines are wired in parallel from the 853 to all Power Cells. Each Power Cell has an internal resolution of, counts. The 853 requests a data transmission from the Power Cell fifteen times per second. Each Power Cell stores the address that is assigned to it in setup and outputs data only when the 853 requests data from its address. The pit power supply also supplies cable termination points for up to six Power Cells. Pit power supply expanders are added to supply additional cable termination points for systems that require more than six Power Cells. The auxiliary power supply is not required for CMO vehicle scales. 2.3 INGLE DIGITOL LOAD CELL BAE  
DESCRIPTION The 853 uses an R422 interface to communicate with the single DigiTOL load cell. Data communication takes place over three wires identified as TxD A, TxD B and RxD A. The 853 update rate is nine weight reads per second.

During calibration the 853 can download span calibration values to the load cell in order to get more counts from the load cell. 2.4 MODEL 26 DIGITOL FLOOR SCALE AND DIGITAL JBOX DESCRIPTION The 853 uses an R422 interface to communicate with the digital jbox inside the Model 26 DigiTOL Floor scale. Data communication takes place over four wires identified as TxD A, TxD B, TxD A and RxD B. The 853 update rate is twelve weight reads per second. The digital jbox converts two to four analog load cells into a DigiTOL load cell signal that the 853 can understand. The digital jbox then performs a shift adjustment on the individual cell weight data to eliminate corner errors. The desk and rack enclosure versions must not be used in wet or extremely dusty environments. The wall mount enclosure version meets NEMA 4X hosedown requirements. 3.2 HAZARDOU AREA ingle  
DigiTOL load cell bases, NMO Power Cell vehicle scales, CMO Power Cell vehicle scales that do not use the Intrinsic safety Barrier, the Model 26 DigiTOL Floor scale, and the digital jbox are not intrinsically safe and MUST NOT be operated in areas classified as Hazardous by the National Electrical Code NEC because of combustible or explosive atmospheres. The 853 indicator combined with the CMO Intrinsic safety Barrier can be operated with CMO Power Cell vehicle scales that are located in hazardous areas. The 853 MUST be located in the nonhazardous area if used with the Intrinsic safety Barrier and CMO Power Cell vehicle scale weighbridges. Contact MettlerToledo Inc. Refer to the CMO Intrinsic safety Barrier installation instruction manual and the DigiTOL Hazardous Area Wiring Diagram, TC442, for installation and troubleshooting information. WARNING The Model 853 DigiTOL Indicator is not intrinsically safe. DO NOT operate the Model 853 in locations classified as HAZARDOU by the National Electrical Code NEC because of combustible or explosive atmospheres. 3.3 STANDARD COMPLIANCE The Model 853 is U.L.

listed to meet specifications 4, Office Appliances and Equipment. The Model 853 is certified by C.A. to meet standard C22.2 No, Office Machines. The Model 853 meets or exceeds both FCC docket and VDE 87 class B specifications for radiated and conducted emissions. The power line for the 853 must not be shared with equipment that generates line noise such as motors, relays, heaters, copy machines, etc.. If adverse power conditions exist, a power line conditioner may be required. Maximum power consumption is 75 watts. The wall mount version weighs 9 lb 8.6 kg. Figure 33 Wall Mount Enclosure Front and Rear Dimensions The rack enclosure versions can be mounted into a panel with the optional panel mount KOP 975. Refer to Figure 34 for panel mounting cutout dimensions. The JN port provides two modes of operation, demand and continuous. The demand mode output has three flexible ticket formats available that are compatible with METTLER TOLEDO Printers, Models 886, 8843, 8856 and Continuous Output The Toledo continuous format output is transmitted after every display update, 5 times per second. The continuous output is available from 2 to 96 baud. Refer to section 6.7 for a complete description of the continuous mode output Demand

**Mode Output** The demand output is subject to print interlock if enabled. The data output is available from 3 to 96 baud and can include expanded print format as well as an optional checksum character. The JW port provides three modes of operation demand, continuous and host mode. The JW port continuous and demand modes output selection is identical to the JN port continuous and demand mode output. The JW port can accept single ASCII characters into the serial port for remote CLEAR, PRINT, TARE and ZERO functions in either the demand or the continuous output mode. Note Only one serial port either JN or JW can be programmed for demand mode output, the other serial port must be configured for continuous mode or host mode for JW port.

The host mode allows the host computer to read weight, status and setpoint data from the scale. The host mode also permits the host computer to upload and download tare and setpoint data to and from the 853. The JW port R232 interface can be used in the host mode for single scale interfacing applications. The host mode has been enhanced to provide greater functionality and troubleshooting capabilities. The host mode can now be used to read raw count output from individual Power cells in a vehicle scale, with error code information. Calibration data can also be uploaded and downloaded by means of the host port. If any damage is found, immediately notify the freight carrier. Open the carton and continue the inspection, check for damaged or missing parts. Verify that all internal harnesses are securely fastened. Be careful not to damage the keyboard harness when removing the front cover. DO NOT over tighten the cover screws when reinstalling them. **Opening the Wall Enclosure** The wall enclosure is opened by flipping the wing type handle of each fastener up and turning them 8 counter clockwise. Loosen the hinge fasteners on the left side last be sure to loosen them both at the same time to prevent jamming. **Opening the Rack Enclosure** Loosening the two front panel screws and sliding the chassis out of the outer case opens the rack enclosure. Remove the three inner cover retaining screws and the inner cover. The 853 provides both the single DLC interface and the multiple DLC interface. The single and multiple DLC interfaces use different wiring pinouts and communication protocols and are not compatible. The 853 is compatible with the DigiTOL Power Cells used in the DigiTOL TRUCKMATE and RAILMATE vehicle scales, Models 726, 753, 754, 756, 7565 and the 76 DC when the multiple DLC adapter harness is installed.

The 853 is compatible with single DigiTOL Load Cell bases such as the Models 996, 997, 296, 297, 296, 297, the Model 26 DigiTOL Floor scale and the digital jbox, when the single DLC adapter harness is installed. The 853 is shipped with the multiple DLC adapter harness installed and is ready to be used with DigiTOL Vehicle scales. If the 853 is to be used with a single DLC base, the Model 257 DigiTOL floor scale or the digital jbox then the multiple DLC adapter harness must be removed from the 853 and the single DLC adapter harness, part number 362 A, must be installed between the load cell extension harness and connector J3 on the 853 Main PCB. CAUTION! Ingle DLC scale bases, the Model 26 Floor scale and the digital jbox require the single DLC adapter harness be installed between the load cell extension harness and connector J3 on the 853 Main PCB or else damage to the load cell may result. REMOVE AC POWER FROM THE 853 AND WAIT A MINIMUM OF 3 ECOND BEFORE CONNECTING OR DICONNECTING ANY HARNEE FROM PCB OR LOAD CELL OR ELE DAMAGE MAY REULT Install the Ingle DLC Harness, If Required To convert the 853 from the multiple DLC interface to the single DLC interface begin by removing AC power to the 853. Unplug the multiple DLC adapter harness from the J7 connector on the 853 Main PCB. Disconnect the inline, nine pin connector end of the multiple DLC adapter harness from the mating nine pin connector on the load cell extension harness. Plug the 6 pin, dual row connector end of the single DLC adapter harness into connector J3 on the 853 Main PCB. Refer to Figure 4. Note The desk enclosure version of the 853 requires that the Main PCB be removed from the enclosure in order to change the DLC adapter harness Install the Multiple DLC Harness, If Required To convert the 853 from the single DLC interface to the multiple DLC interface, begin by removing AC power to the 853. Unplug the single DLC adapter harness from the J3 connector on the 853 Main PCB.



Disconnect the inline, nine pin connector end of the single DLC adapter harness from the mating connector on the load cell extension harness. Plug the 6 pin, dual row connector end of the multiple DLC adapter harness into connector J7 on the 853 Main PCB. Refer to Figure 4. Note The desk enclosure version of the 853 requires that the Main PCB be removed from the enclosure in order to change the DLC adapter harness. The voltage selection card in the AC line filter assembly of the desk and rack enclosure versions MUST be to 2. If the voltage input card in the line filter on these units is changed to anything other than 2 VAC the 853 will not operate. General export versions of the 853, factory numbers 853,, and 2 are shipped configured for 22 VAC operation and are selectable for 24 VAC operation Desk and Rack Enclosure Versions AC Line Voltage election Remove the AC power cord from the AC filter assembly located on the right side of the Desk enclosure or on the rear of the Rack enclosure. Refer to Figure 42. Slide the clear plastic fuse cover to the side, exposing the fuse. Pull the handle labeled FUSE PULL and remove the fuse. With the fuse removed, use a small screwdriver or similar object and gently pry the voltage selection card straight out of the AC filter assembly. A small hole in the card is provided to assist removal. Insert the voltage selection card so that the desired voltage marking is readable and located on the left side of the card. Reinstall the fuse in the fuse holder. Figure 42 Export, Desk and Rack Version, AC Line Voltage election Wall Enclosure Version AC Line Voltage election AC voltage selection for the 853, is performed by rotating the voltage selection switch on the AC line filter fuse assembly, located in the bottom left corner of the 853 enclosure. To switch between 22 and 24 VAC, first remove AC power to the 853 and open the enclosure.

Next, insert the blade of a small, flatbladed screwdriver into the slot in the center of the voltage selection switch. Rotate the switch clockwise to select 22 VAC, rotate the switch counterclockwise to select 24 VAC. Refer to Figure 44 for battery location. Be careful not to touch the metal surface of the battery as corrosion caused by acids from your skin can cause the battery to fail. If ASCII control characters are to be input to the JN serial port then jumper W6 must be set to match the JN port interface used. If ASCII control characters are to be received into the 2 ma current loop input then jumper W6 must be IN shorting the two pins together. If ASCII control characters are to be received into the RS232C interface then jumper W6 must be OUT not shorting the two pins together. Refer to Figure 44 for jumper location. The 853 is compatible with DigiTOL load cells only. The 853 MUST NOT be connected directly to analog load cells as damage to the 853 Main PCB may result. Analog load cells can be connected to the 853 by using the digital jbox to convert the analog load cells into a DigiTOL load cell compatible interface. Damage to the DigiTOL load cell or the 853 Main PCB may result if the 853 is connected using the wrong DigiTOL load cell interface. Refer to section 4.3 before connecting the 853 to a scale base. REMOVE AC POWER FROM THE 853 AND WAIT A MINIMUM OF 3 SECONDS BEFORE CONNECTING OR DISCONNECTING ANY HARNESS FROM PCB OR LOAD CELL A DAMAGE MAY RESULT Terminate Vehicle cable Home Run Cable If Used Verify that the multiple DLC adapter harness, part number 363 A, has been installed between the external load cell harness and the multiple DLC connector J7 on the 853 Main PCB. Refer to Figure 44 for connector J7 location. If the single DLC adapter harness, part number 362 A, is installed at connector J3 on the main PCB then refer to section 6.

3 of this manual and to the weighbridge installation manual for weighbridge and home run cable wiring information Terminate single DigiTOL Load Cell Cable If Used Verify that the single DLC adapter harness, part number 362 A, has been installed between the external load cell harness and the single DLC connector J3 on the 853 Main PCB. Refer to Figure 44 for connector J3 location. Once the weighbridge is physically installed, configure the 853 according to the recommended setup parameters in the quick setup reference chart in section 6 Refer to the indicator setup section of the weighbridge installation manual for the correct scale capacity, increment size and number of Power Cells. If problems occur during the addressing procedure then refer to the troubleshooting procedure in section 7 of this manual. Refer to the indicator setup section of the weighbridge

installation manual for maximum raw count deviation and final shimming instructions if necessary. Record and save the Power Cell raw count output readings after final shimming is completed, for future use. Once the 853 has been configured, the Power Cells have been addressed and correct Power Cell shimming has been verified, the scale is now ready for calibration. Once the shift adjust and scale calibration have been performed successfully the first time, the shift adjust and scale calibration steps can be accessed independently without causing a problem. A weight cart or a large fork lift truck that can concentrate the weight directly over the load cell being adjusted will be much more effective during shift adjustment than the rear axle of a test truck. If you intend to use the recommended capacity and increment size printed on the data plate then refer to section 4.8 for programming and calibration information. The 853 is capable of displaying up to a maximum of 6, displayed increments.

If you intend to use an increment size that is smaller than the recommended increment size selection printed on the scale base data plate then the minimum increment size for the scale base must be determined before calibration. Refer to section for DigiTOL JBox minimum increment size. Refer to section for Model 257 DigiTOL Floor scale minimum increment size. Refer to section for Bench and Portable single DLC scale base minimum increment size. Note The minimum increment size selections listed in sections,, and are not legal for trade. The increment size selected for a scale used in a legal for trade application MUST NOT BE SMALLER than the minimum increment size minimum listed on the scale base or load cell data plate. Find the individual capacity of the load cells you are connecting to the DigiTOL JBox in Table 4 and compare the desired increment size to the minimum increment size listed. Find the rated capacity of the scale base you are interfacing to in Table 42 and compare the desired increment size to the minimum increment size listed. Rated scale Capacity in lb 2, 5, 10, 20, Individual Load Minimum Increment size Cell Capacity in lb lb kg, 3, 5, 10, Table 42 Model 257 DigiTOL Floor scale Minimum Increment size Minimum Increment size for Bench and Portable single DLC scale Bases Table 43 lists the minimum increment size possible for the DigiTOL Bench and portable single DLC scale base models listed by factory number. Find the base you are connecting in Table 43 and compare the desired increment size to the minimum increment size listed. Numeric The numeric keys 0-9 are used to enter data as required. Press the key to access a sequence or to select YES. Press the key to select NO or to skip a step. The key is also used to display the next selection when a menu of choices is presented. CLEAR ENTER PRINT ZERO Press the CLEAR key to erase the current value and permit reentry of data. Press the ENTER key to accept the displayed selection and to advance to the next setup step.

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