

Owners Installation, Operation, and Safety Manual



FILL-RITE®

Digital Liquid Meter

Series 900D – High Flow

Models

**900DP, 900DP1.5, 900DPBSPT, 900DP1.5BPST
900DPX, 900D1.5DPX1.5, 900DPXBSPT, 900DPX1.5BSPT**

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Thank You!

Thank you for your purchase of the Fill-Rite® 900 Series Digital Meter! Your Fill-Rite product comes with over 80 years of fluid transfer experience behind it, providing you the value that comes with superior performance, user friendly design, long service life, and solid, simple engineering. Experience that gives you peace of mind.

Excellence at Work! Excellence in Life!

About This Manual

From initial concept and design through its final production, your Fill-Rite meter is built to give you years of trouble free use. To insure it provides that service, **it is critical that you read this entire manual prior to attempting to install or operate your new meter.** Become familiar with the terms and diagrams, and pay close attention to the highlighted areas with the following labels:



WARNING! Emphasizes an area in which personal injury or even death could result from failure to follow instructions properly. Mechanical damage may also occur.



IMPORTANT! These boxes contain information that illustrates a point that may save time or may be key to proper operation, or clarifies a step.



CAUTION! Failure to observe a “Caution” can cause damage to the equipment.

At Fill-Rite, your satisfaction with our products is paramount to us. If you have questions or need assistance with your product, please contact us at 1-800-634-2695 (M-F 8 AM–5 PM ET).

Safety Information



WARNING! To insure safe and proper operation of your equipment, it is critical to read and adhere to all of the following safety warnings and precautions. Improper installation or use of this product can cause serious bodily injury or death!

- 1) **NEVER** smoke near the meter, or use the meter near open flames when metering a flammable liquid! Fire can result!
- 2) A Fill-Rite Filter should be used on the meter outlet to insure no foreign material is transferred to the fuel tank.
- 3) Threaded pipe joints and connections should be sealed with the appropriate sealant or sealant tape to minimize the possibility of leaks.
- 4) Storage tanks should be securely anchored to prevent shifting or tipping when full or empty.
- 5) To minimize static electricity build up, use only static wire conductive hose when metering flammable fluids, and keep the fill nozzle in contact with the container being filled during the filling process.
- 6) **DO NOT** exceed 50 psi/ 3.5 BARS line pressure.
- 7) **DO NOT** install additional foot valve or check valve without a pressure relief valve; otherwise the meter may rupture.



WARNING! This product should not be used to transfer fluids any type of aviation fuel.

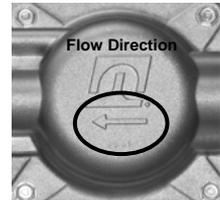


WARNING! This product is not suited for use with fluids intended for human or animal consumption or fluids containing water. Nickel plated meters are approved for use with non-potable water, antifreeze, certain agricultural chemicals, and other specialized water applications.

Installation

Meters are furnished for horizontal piping; left to right flow. The display can be rotated to any of four positions for horizontal or vertical piping and for either direction of flow.

1. Determine direction for fluid to flow.
2. Install meter **observing directional arrow on casting on back of meter (circled)**. Liquid **MUST** flow in the direction of the arrow for proper operation.
3. Once the meter is plumbed into place, remove four screws (circled) on corners of meter face (Torx T25 bit required).
4. Rotate meter face assembly to desired orientation.
5. Replace four screws.
6. Complete installation by making sure the joints are properly sealed and meter is positioned for easy viewing and use.



CAUTION! Threaded pipe joints and connections should be sealed with the appropriate sealant or sealant tape to minimize the possibility of leaks.



IMPORTANT! If you have purchased this meter as part of a “Kit”, the meter flange base is drilled with 4 holes. This allows the meter to be used with 300 and 700 series pumps. Line the meter bracket up for installation and insert the bolts in the two holes that align with the corresponding holes on the pump outlet. Once the meter bracket is bolted securely in place install the two plugs in the holes that were not used to prevent moisture from entering them.



Meter Calibration

Meter calibration is required upon installation, after disassembly, after significant wear, or when dispensing a different viscosity fluid. Calibration must be done between 6 and 40 GPM (23 and 151 LPM). Meter calibration can be easily changed by following the calibration procedure. A container of **KNOWN** volume will be needed for the calibration procedure. For the 900 series digital meter, a five gallon container or larger, or a 20 liter container or larger should be used.

Procedure for Meter Calibration

Unit of measure and calibration is configured using a 3-step process.

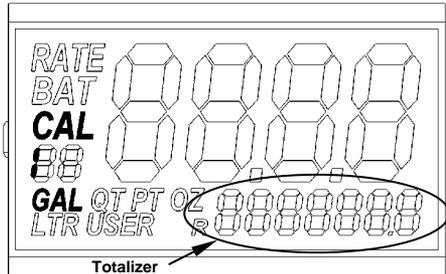
1. Select the desired unit of measure
2. Fill a container with a known volume using the desired fluid.
3. Enter the amount of fluid dispensed.

Prior to calibration, the unit must be placed in calibration mode. Press and hold the TOTAL and CAL buttons for 5 seconds to enter Calibration Mode.



IMPORTANT! When calibrating, the totalizers will not increase in value.

1. The unit will default to the last unit of measure used.
2. Press and release the TOTAL button to toggle through the available units of measure.
3. Press and hold the CAL button for 2 seconds to move to the next step.
4. If the meter is left untouched for 2 minutes or the RESET button is pressed, the unit will automatically exit Calibration Mode and ignore any changes in volume.



IMPORTANT! Dispensing into a container with a known volume allows the unit to automatically calculate the internal scaling value to compensate for fluid viscosities and the system flow rate.

1. CAL 2 will be displayed.
2. Begin dispensing fluid into the container.
3. **FILL** will begin to blink after fluid flow is detected.
4. Dispense the desired amount fluid; stop flow as soon as desired level is reached.
5. Press and hold the CAL button for 2 seconds to move to the next step.

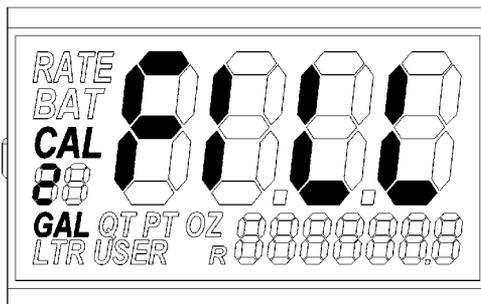


IMPORTANT! If left untouched for 2 minutes, or the RESET button is pressed, the meter will exit Calibration Mode and any dispensed fluid will be ignored.

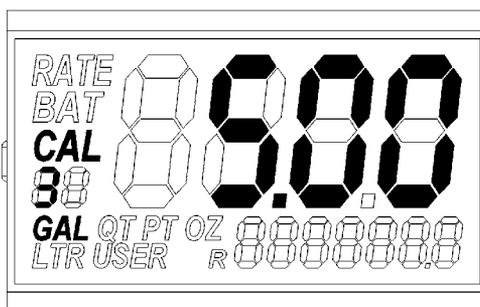
- Pressing and holding the CAL button for 2 seconds before dispensing into a container will cause the meter to skip a fill operation and only change the unit of measure.



IMPORTANT! For maximum accuracy, try to get as close as possible to the dispensed volume **without changing flow rate**.



- The unit will default to a measured value based on the last calibration performed.
- The left-most digit will begin blinking.
- Use the TOTAL button to scroll from 0 to 9 until the desired number has been selected.
- Press and release the CAL button to move to the next digit.
- Repeat Steps 3-4 until the amount of dispensed fluid has been entered.



- If you make a mistake entering a digit, press and release the TOTAL button repeatedly until the digit is active again.
- Press and hold the CAL button for 2 seconds to complete the calibration process regardless of the current digit selected.
- If at the last digit and the CAL button is pressed for less than 2 seconds, the process should roll back to the left-most digit, but retain the current value. This allows the user to edit an incorrect value.
- An error check for gross calibration errors (+/- 15%) will be performed unless USER units are selected. If an error is detected, the meter will display Err0 until a button is pressed and the calibration process is aborted.
- If the meter is left untouched for 2 minutes or the RESET button is pressed, the unit will automatically exit Calibration Mode and ignore any changes.

Operating Instructions

For accurate measurement and to prevent meter damage, dispenser and piping must always be filled with liquid and be free of air. The meter portion of your dispenser should be calibrated per instructions in this manual prior to its use.

The Fill-Rite 900 Series Digital Meter face incorporates three buttons that control all the operation and calibration functions.

To turn the display on, or wake the meter from "Sleep" mode, simply press any button on the face. The display will turn on and you can proceed with the function you desire. Dispensing fluid will also turn the meter display on.





IMPORTANT! When the meter is in the “Deep Sleep” mode, dispensing fluid will **NOT** turn the meter on. The meter will not display or accumulate any fluid that is dispensed while in “Deep Sleep” mode.

- Pressing any button will turn the meter on when in deep sleep mode. (Fluid flow will not turn the unit on or cause it to exit deep sleep mode).
- The last count and selected totalizer is retained and displayed when the meter is turned on.
- Pressing and releasing the TOTAL button will switch between the resettable and non-resettable totalizers. (The R icon will be displayed when the resettable total is displayed).
- Pressing and holding the RESET button for 2 seconds will reset the counter.
- Pressing and holding the RESET button and TOTAL buttons for 2 seconds will reset the totalizer. **The resettable totalizer must be active in order to reset it.**
- Pressing and holding the RESET button and CAL buttons for 2 seconds will display the software version for 2 seconds and then perform a segment check for 3 seconds, and then restore the display.
- Pressing and holding the CAL button for 5 seconds will place the meter into a deep sleep mode.



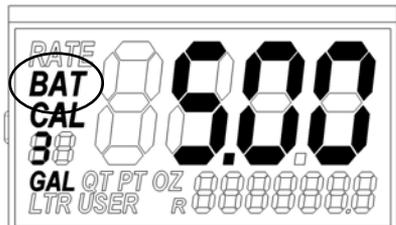
IMPORTANT! “Deep Sleep” mode is designed to maintain a status of operational readiness while offering battery conservation. The meter should be placed in this mode when:

- Flushing the unit so the dispensed volume is not counted.
- Traveling over rough surfaces (off-road) and does not want the unit to count if fluid is being jostled.
- Extending battery life; there is no penalty for repeatedly placing it in deep sleep.

- After 30 seconds of inactivity, the display will blank to conserve battery power.
- If the meter is connected to the external power source, the display will not blank unless forced into deep sleep mode.
- If external power is removed, the meter will revert to battery only operating characteristics and vice-versa. Remain in deep sleep mode if active.
- The counter and totalizer 2 can be reset even if fluid flow is detected. The meter must continue counting during the 2 second RESET button press, reset to 0 and resume counting.

Low Battery Warning

The digital display includes a “Low Battery” warning indicator. When the battery reaches a level low enough to require replacement, the display will show “BAT” as a reminder to change the battery. When necessary, replace batteries per procedure on page 8.



Storage

If your meter is to be stored for a period of time, clean it thoroughly. This will help protect the meter from possible damage.

Troubleshooting

The following troubleshooting guide is designed to help you with basic diagnostics and repairs if you should encounter abnormal service from your 900 series digital meter. We recommend you use only genuine Fill-Rite parts. These parts, and additional service information is available through your authorized Fill-Rite dealer.

Further troubleshooting information can be found in your pump manual. If you need additional assistance, please contact us at 1-800-634-2695 (M-F 8 AM–5 PM ET).

Concern	Possible Cause	Recommended Repair
Counter inaccurate.	Meter mis-calibrated.	Check calibration and recalibrate as necessary (directions on page 4).
	Air in lines or metering chamber.	Check line seals and joints for leakage; seal leaks appropriately.
	Measuring gears or disc are sticking.	Clean or replace internal metering components as necessary.
Fluid leak at shaft seal.	Dirty or damaged seal.	Clean O-Ring seal and seat, replace seal as necessary.
Low flow capacity.	Clogged meter chamber.	Clean meter chamber; clean or replace screens and filters in piping.
Meter body cracks.	Excess line pressure.	Install pressure relief valve to allow high pressure to bleed back to the tank. Replace meter.
Nutating Disc Broken.	Sudden high pressure fluid hitting disc.	Avoid surge flows by installing a shut-off valve on outlet of meter; install meter as close to the pump as possible, keep piping full of liquid. Replace broken disc.

Fluid Compatibility

The 900 series digital meter **IS** compatible with the following fluids:

Diesel Fuel Bio-Diesel (up to B20) Gasoline Kerosene Mineral Spirits Heptane Hexane

The 900 series digital meter **IS NOT** compatible with the following fluids:

Bleach Hydrochloric Acid Ink Sulfuric Acid Salt Water



CAUTION! If in doubt about compatibility of a specific fluid, contact supplier of fluid to check for any adverse reactions to the following wetted materials:

Ryton® PPS
Buna N

Aluminum
Polyester

Stainless Steel
PTFE

Fluorocarbon
Nickel

Assembly and Disassembly

The 900 series digital meter consist of a chamber housing, measuring chamber, drive shaft, digital counter assembly, and cover. The design of the meter is such that it can be completely disassembled without disturbing the piping (refer to diagram on page 9 for item number parts).

Accessing the Battery

For access to the batteries (2 AA cell batteries) (figure 1):

- 1) Remove the four screws at the top and bottom of the front bezel (Torx #T25).
- 2) Lift bezel off. Batteries are located on the back side of the display; use a Phillips head screwdriver to remove the cover screws to access the batteries.
- 3) Reassemble by reversing this procedure.

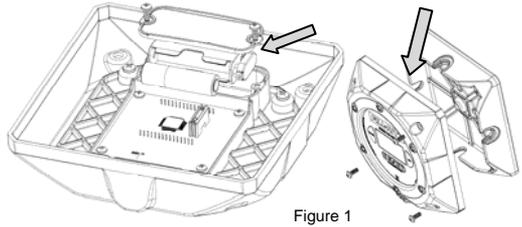


Figure 1

Meter Chamber Assembly

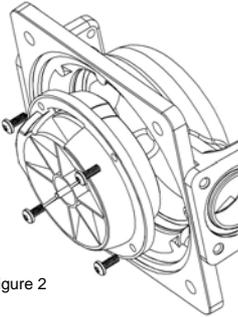


Figure 2

The Meter Chamber consists of upper and lower chambers, a rotating disc, and four screws (figure 2).

- 1) To expose the meter chamber assembly, gear train and seal remove 4 screws.
- 2) The meter chamber can be dislodged by removing 4 screws.

Reassemble by reversing this procedure.

Illumination

Units equipped with the pulser / external power option offer illumination for the digital display. To turn the light on, press and release the "CAL" button. The display will remain illuminated for 10 seconds after turned on.



IMPORTANT! If replacing any components of the meter chamber, **the complete assembly must be replaced due to its precision method of construction.** This will assure a proper fit, and correct operation of the chamber.

Repair

Meters needing repairs should be taken to an authorized repair facility. Meters **MUST** be triple rinsed before taking them in for repairs.

Safety Testing Approvals

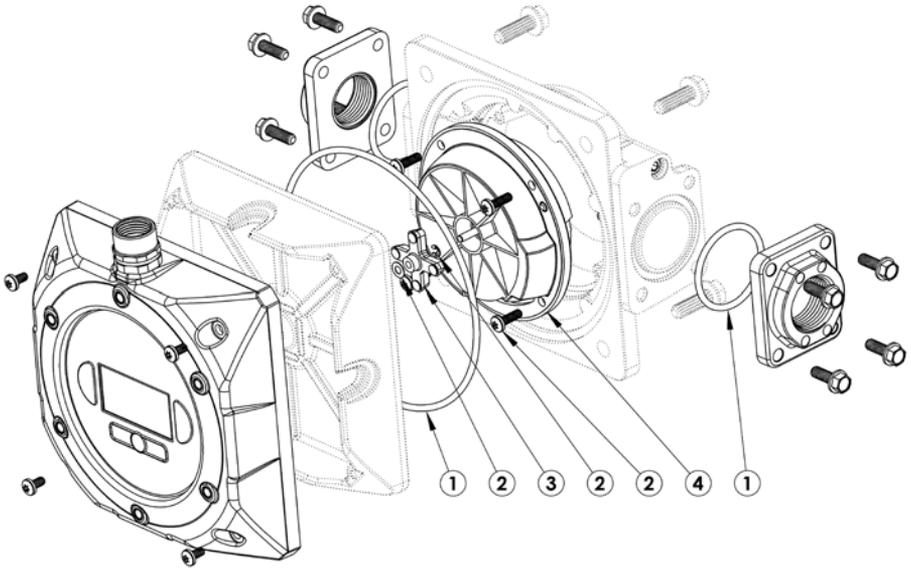
The **Fill-Rite** 900D series meters have been tested for compliance to the standards set forth by Underwriters Laboratories (UL), UL Canada, ATEX, and other testing organizations. **To determine which specific compliances apply to your particular meter, refer to the faceplate for information and compliance logos.**



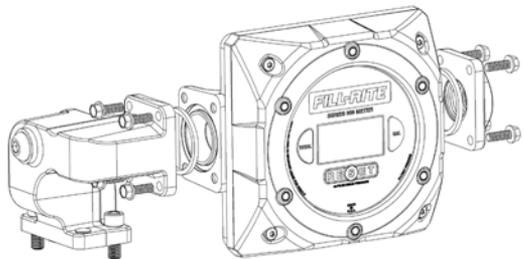
Replacement Parts Information

Replacement parts can be obtained through any authorized Fill-Rite dealer. Be sure to use only genuine Fill-Rite replacement parts for your service and maintenance needs. For a list of authorized dealers, please visit our web site at “www.fillrite.com”.

Models FR901, 901N, 9011.5 901MK300, 901MK300V, 901LMK300V, & 901MK4200



900DPMK300L Kit Meter w/ Pulsar
 900DMK300L Kit Meter w/o Pulsar



900 Series Digital Meter Replacement Parts Kit

Kit Number	#	Description	Qty
KIT 900DKY	1	Required Seal	3
	2	Required Fasteners	4
	3	Magnetic Driver	1
	4	Chamber Assembly	1

Repair Kits and Accessories

Kit #	Description	Contents
901DPMK300V	900 Series Meter (gallons) with Inlet Flange for FR300 & FR700 Pumps	900 Series Meter (gallons)
		Inlet Flange (4-hole)
		Required O-rings
		Required Fasteners
901DPLMK300V	900 Series Meter (liters) with Inlet Flange for FR300 & FR700 Pumps	900 Series Meter (liters)
		Inlet Flange (4-hole)
		Required O-rings
		Required Fasteners

900 Series Digital Meters w / Pulser

Certain 900 Series Digital Meters (model number suffix of DP) can be powered externally and are equipped with an integral electronic pulser unit for use with Fuel Management Systems.

The Fuel Management System must be configured for current sinking or contact closure types of signals. The meter provides ten counts per unit of measure (in gallon, liter, and quart units of measure only; pulser does not operate in ounce, pint, or user specific units of measure).

Electrical Installation Information

There are multiple electrical configurations for the 900D Series Digital Meter, featuring two different power sources. It is critical that the meter be installed and wired correctly to ensure correct, safe operation.



WARNING! Electrical wiring should be performed **ONLY** by a licensed electrician in compliance with local, state, and national electrical codes (NEC/ANSI/NFPA 70, NFPA30, and NFPA 30A in US installations for example), as appropriate to the intended use of the meter. **The barrier must be properly connected to an earth grounded.** Improper installation of this meter and barrier can result in equipment failure or damage, serious bodily injury, or death!



CAUTION! For meter installations using external power, the power should come from a dedicated circuit. No other equipment should be powered by this circuit. Wiring must be of sufficient size to carry the correct current for the meter. Voltage drop will vary with distance to meter and size of wire; refer to the National Electrical Code (NEC), or local codes, for Voltage Drop Compensation to be sure you are using the correct size wire for your application. Wiring between the barrier and meter **MUST NOT** exceed 850'. Refer to “**Typical Installation**” wiring information document DC000675-010 (included in the meter box) for details.



IMPORTANT! Explosion Proof versus Intrinsically Safe:

There is a distinct difference between a product that is “Explosion Proof” versus a product that is “Intrinsically Safe”. Intrinsically Safe products are built so they do not generate enough heat or energy to cause ignition or explosion. They are safe to use in an explosive atmosphere (i.e.: around fuel tanks, etc. where explosive vapors may be present). An Explosion Proof product is one that is designed to contain an explosion internally if one should occur. Understanding the difference between the two is critical when installing a new item to be certain the installation is safe and to code.

Internal Power (Battery Power)

All 900D Series Digital Meters are battery powered. The battery tray is located behind the faceplate on the circuit board (see illustration page 8). Power is supplied by two alkaline “AA” batteries. With normal use, these batteries should provide 2 – 4 years of use. The digital display has an integral warning of low battery level (see page 6 for details)



WARNING! To reduce the risk of explosion DO NOT mix old batteries with new batteries, or mix batteries of different manufacturers.



WARNING! Batteries may ONLY be replaced with the following:
 Duracell MN1500
 Duracell MX1500
 Energizer E91
 Incorrect battery selection voids the UL certification.

If there are questions feel free to contact your Fill-Rite Customer Service Representative at 1-800-634-2695 (M-F 8 AM to 5 PM ET).

External Power (AC Power)

900D Series Digital Meters equipped with an integral pulser for use with an Fuel Management System can also use an auxiliary external AC power supply to operate. External power sources can include (but are not limited to) transformers, universal power supplies, and direct power from an applicable Fuel Management System power supply.

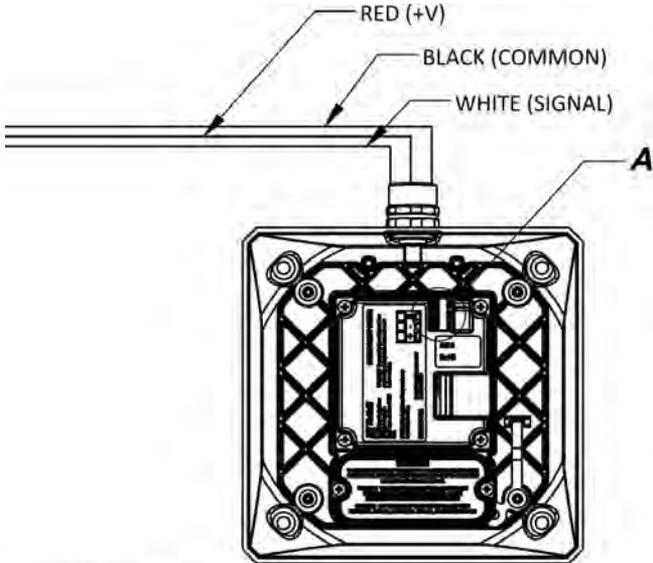
The following pages contain installation information on all of the typical installation applications. Additionally there are separate wiring diagrams and detailed important wiring information included in the box with your meter, but separate from this manual. It is critical that this additional information and diagrams be read and understood by the installer prior to installation of the meter, and barrier where applicable.



900DP Battery and Wiring Access



Intrinsically Safe Barrier



HAZARDOUS LOCATION

CLASS 1, GROUP D HAZARDOUS LOCATIONS

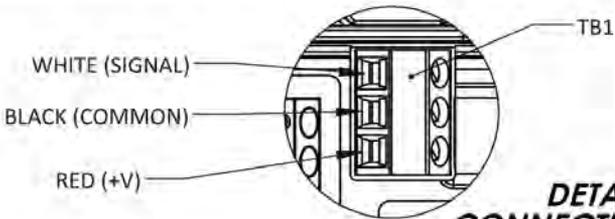
CLASS 1 ZONE 0 AEx ia IIA T4

CLASS 1 ZONE 0 Ex ia IIA T4

AMBIENT TEMPERATURE $-40^{\circ}\text{C} < T_a < 80^{\circ}\text{C}$

NOTE:

WHEN BATTERIES ARE INSTALLED, THE ALLOWABLE AMBIENT TEMPERATURE RANGE OF THE SERIES 900DP METER IS -40°C TO $+60^{\circ}\text{C}$.
 WHEN BATTERIES ARE NOT INSTALLED, THE ALLOWABLE AMBIENT TEMPERATURE RANGE OF THE SERIES 900DP METER IS -40°C TO $+80^{\circ}\text{C}$.



**DETAIL A
CONNECTION DETAIL**



WARNING! Substitution of components may impair intrinsic safety!



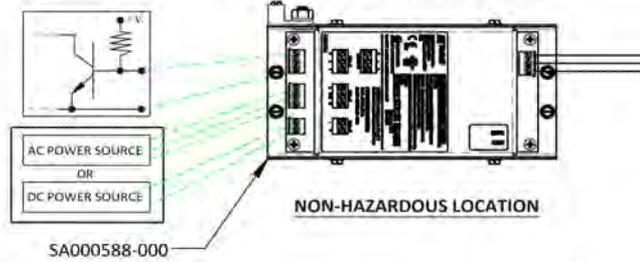
WARNING! To prevent ignition of combustible or flammable atmosphere, disconnect power before servicing.



WARNING! To prevent ignition of flammable or combustible atmosphere, do not use a volt meter or similar powered tools during live maintenance.

CONTROL EQUIPMENT / FMS

INTRINSICALLY SAFE BARRIER



NOTES:

1. BARRIER MAY BE IN A DIVISION 2 OR ZONE 2 LOCATION IF SO APPROVED.
2. BARRIER OUTPUT CURRENT MUST BE LIMITED BY A RESISTOR SUCH THAT THE OUTPUT VOLTAGE-CURRENT PLOT IS A STRAIGHT LINE DRAWN BETWEEN OPEN-CIRCUIT VOLTAGE AND SHORT-CIRCUIT CURRENT.
3. SELECTED BARRIERS MUST BE THIRD PARTY LISTED AS PROVIDING INTRINSICALLY SAFE CIRCUITS FOR THE APPLICATION, AND HAVE V_{oc} OR V_t NOT EXCEEDING V_{max} , AND I_{sc} OR I_t NOT EXCEEDING I_{max} , AND THE P_o OF THE BARRIER MUST BE LESS THAN OR EQUAL TO THE P_{max} OR P_i OF THE INTRINSICALLY SAFE EQUIPMENT, AS SHOWN IN TABLE 1.
4. CAPACITANCE AND INDUCTANCE OF THE FIELD WIRING FROM THE INTRINSICALLY SAFE EQUIPMENT TO THE BARRIER SHOULD BE CALCULATED AND SHOULD BE INCLUDED IN THE SYSTEM CALCULATIONS AS SHOWN IN TABLE 1. CABLE CAPACITANCE (C_c) PLUS INTRINSICALLY SAFE EQUIPMENT CAPACITANCE (C_i) MUST BE LESS THAN THE MARKED CAPACITANCE (C_a OR C_o) SHOWN ON ANY BARRIER USED. THE SAME APPLIES FOR INDUCTANCE (L_c, L_i AND L_a OR L_o RESPECTIVELY). WHERE THE CABLE CAPACITANCE AND INDUCTANCE PER FOOT ARE NOT KNOWN, THE FOLLOWING VALUES SHALL BE $C_o=60$ pF/FT, $L_c=0.2\mu H/ft$.
5. IF P_o OF THE BARRIER IS NOT KNOWN, IT MAY BE CALCULATED USING THE FORMULA $P_o=(V_{oc} * I_{sc})/4$.
6. BARRIERS MUST BE INSTALLED IN ACCORDANCE WITH BARRIER MANUFACTURER'S CONTROL DRAWING AND ARTICLE 504 OF THE NATIONAL ELECTRICAL CODE, ANSI/NFPA 70, FOR INSTALLATION IN THE UNITED STATES, OR SECTION 18 OF THE CANADIAN ELECTRICAL CODE FOR INSTALLATIONS IN CANADA, OR OTHER LOCAL INSTALLATION CODES AS APPLICABLE.
7. WHEN REQUIRED BY THE MANUFACTURER'S CONTROL DRAWING, THE BARRIER MUST BE CONNECTED TO A SUITABLE GROUND ELECTRODE PER THE NATIONAL ELECTRICAL CODE, ANSI/NFPA 70, OR THE CANADIAN ELECTRICAL CODE, OR OTHER LOCAL INSTALLATION CODES AS APPLICABLE. THE RESISTANCE OF THE GROUND PATH MUST BE LESS THAN 1 OHM.
8. CONTROL EQUIPMENT MUST NOT USE OR GENERATE MORE THAN 250V RMS OR DC WITH RESPECT TO EARTH.

ENTITY PARAMETERS FOR TB1

V_{max}, U_i (or V_t)	I_i	P_i	C_i	L_i
13.65V	0.319A	1.343W	10.8uF	0mH

TABLE 1

I.S. EQUIPMENT		BARRIER
V_{max}, U_o	>	V_{oc}, U_i (or V_t)
I_{max}, I_o	>	I_{sc}, I_i (or I_t)
P_i, P_{max}	>	P_o
$(C_i, C_o) + C_c$	<	C_a, C_i
$(L_i, L_o) + L_c$	<	L_a, L_i

RELATED DRAWING

NO MODIFICATIONS PERMITTED WITHOUT REFERRING TO THE NOTIFIED BODY

Technical Specifications and Information

Dimensions: 6.75" (H) x 8.46" (W) x 4.10" (D)

Accuracy: $\pm 1.25\%$

Repeatability: $\pm 0.25\%$ at calibrated flow rate.

Flow Rate: 6 to 40 GPM

Pressure Rating: 50 psi

Construction: Aluminum

Units of Measure: Ounces, pints, quarts, liters, gallons, 1 special "unit of measure" option.

Counter: 4 digit resettable counter; (.01 – 9999 units).

Totalizers: 7 digit non-resettable "Master" totalizer, 7- digit resettable secondary.

Mounting Options: Can be installed for vertical or horizontal mounting by rotating display accordingly.

Approvals: UL / cUL / ATEX Listing (see page 8 for information on specific certifications).

Power Supply: 2 "AA" batteries* (Dura-cell MN1500, MX 1500, or Energizer E91 Alkaline batteries only); optional external power supply on certain models.

Expected Battery Life: 2 – 4 years of normal use with standard Alkaline batteries.

Operating Temperature Range: -40° to 140° F (Pulsar units have face heat for extended use down to -40 ; note that display goes blank below -40 but meter and pulsar will continue to operate normally).



Tuthill Product Warranty

Tuthill Transfer Systems (“Manufacturer”) warrants each consumer buyer of its Fill-Rite products (“Buyer”) from the date of invoice or sales receipt, that goods of its manufacture (“Goods”) shall be free from defects of materials and workmanship. Duration of the warranty is as follows:

- Heavy Duty Products – Two Years
- Standard Duty Products – One Year
- Economy Duty Products – One Year
- Cabinet Meters, Parts, and Accessories – One Year

Manufacturers sole obligation under the foregoing warranties will be limited to either – at Manufacturers option – repairing or replacing defective goods (subject to limitations hereinafter provided) or refunding the purchase price for such Goods theretofore paid by the buyer, and Buyers exclusive remedy for breach of any such warranties will be enforcement of such obligations of the Manufacturer. If the Manufacturer so requests the return of such Goods, the Goods will be redelivered to the manufacturer in accordance with Manufacturers instructions FOB Factory. The remedies contained herein shall constitute the sole recourse of the Buyer against the Manufacturer for breach of warranty. **IN NO EVENT SHALL THE MANUFACTURER’S LIABILITY FOR ANY CLAIM FOR DAMAGES ARISING OUT OF THE MANUFACTURE, SALE, DELIVERY, OR USE OF THE GOODS EXCEED THE PURCHASE PRICE.** The foregoing warranties will not extend to goods subject to misuse, neglect, accident, improper installation or maintenance, or have been repaired by anyone other than the Manufacturer or its authorized representative. **THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OF MERCHANTABILITY, FITNESS FOR PURPOSE OF ANY OTHER TYPE, WHETHER EXPRESSED OR IMPLIED.** No person may vary the forgoing warranties or remedies, except in writing signed by a duly authorized officer of the Manufacturer. The Buyer’s acceptance of delivery of the Goods constitutes acceptance of the foregoing warranties and remedies, and all conditions and limitations thereof.

Tuthill Corporation recommends you retain your sales receipt as proof of purchase.

The following space has been provided to record important information about your meter for quick reference.

Model Number		UPC Bar Code	
Manufacture Date		Serial Number	
Date of Purchase		Purchase Location	

NOTES