

DESCRIPTION

The Radio Frequency Fluid Management System (RF-FMS) by Badger Meter® consists of an A/C powered keypad and a battery-powered RF-radio equipped meters. The product has been designed to offer greater control over the dispensing of fluids with significant reductions in installation costs, and the associated hardware common to most hard-wired systems today. Dispense information and authorization is communicated from the keypad to the meter. The dispense information is transmitted back to the keypad via 2.4 GHz direct sequence spread spectrum radio communications.

APPLICATION

The EPM-3 RF meter is designed specifically to meter and dispense bulk fluids for servicing automobiles, trucks, buses, construction equipment and similar applications. It is a lightweight, rugged and shock-resistant design with a comfortable grip and is ideal for dispensing motor oils (S.A.E. 5...50), gear oils (S.A.E. 80...240), automatic transmission fluid, antifreeze (ethylene glycol) solution and hydraulic fluid.

Typical applications include:

- Fleet maintenance shops
- Industrial assembly
- Quick lube facilities
- Dealerships
- Construction and mining equipment
- General automotive service centers
- Specialty service and repair shops

The EPM-3 RF meter uses four replaceable AA batteries and is calibrated at the factory. The meter can also be recalibrated easily in the field for a fluid with a different viscosity.

OPERATION

The EPM-3 RF meter is equipped with RF communications to communicate with a fluid management system keypad to get authorization and dispense information.

Once a work order has been entered at the keypad, press **RESET** on the meter to start communications between the meter and the keypad. The meter receives authorization from the keypad to unlock, along with the dispense batch quantity. When the trigger is pulled, the preset batch quantity dispenses. The meter automatically shuts off when the dispense batch quantity has been reached.

A top-off feature allows additional fluid to be dispensed and tracked after the batch quantity has been dispensed.

Upon completion of the dispense, press **RESET**. The meter locks, prohibiting any unauthorized dispense of fluid, and the dispense quantity is sent to the keypad.



CONTAINS FCC ID: S4GEM35XB
FCC CERTIFIED, PART 15, SUBPART C

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

CONTAINS IC: 8735A-EM35XB

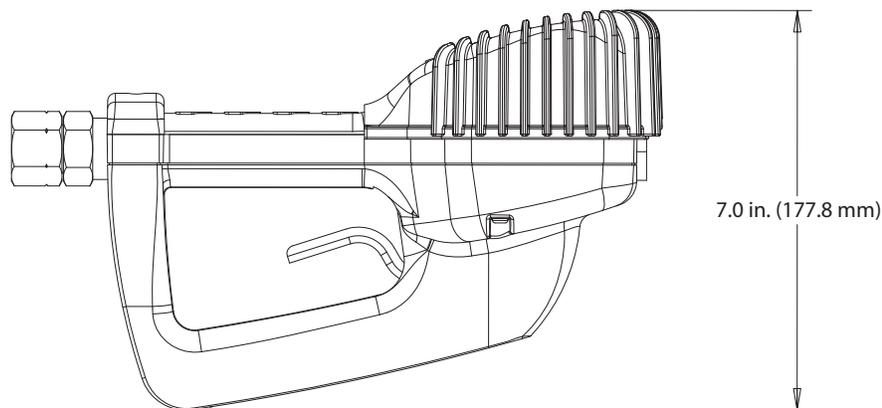
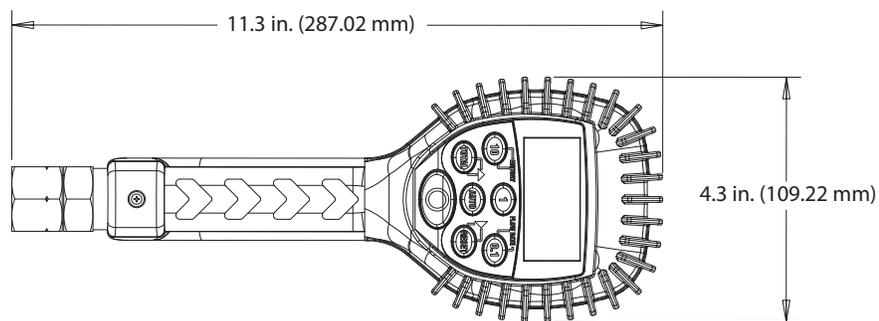
FEATURES

- Oval gear driven meter (LCP gears)
- Durable and lightweight
- Large, easy-to-read LCD display
- Totalization in liters and US gallons
- Dispensing measurement in liters, quarts, pints, US gallons
- Dispense top-off feature
- Unauthorized dispense lock-out feature
- Max. totalizer number: 99,999 US gallons or liters
- Max. dispense volume: 99,999 units
- Max. preset volume: 999 units
- Calibration factor for different fluids
- Changeable units of measure
- Total and resettable total
- Minimum 20,000 cycles on battery life
- Low battery indicator
- Low battery safety lock-out feature
- Ability to save settings if power is interrupted
- Uses four standard AA batteries
- In-line swivel standard with all meters
- Automatic shut-off at preset amount
- Emergency electrical override
- Precision control valve operation

SPECIFICATIONS

Maximum Flow *	10 gpm (38 lpm)
Minimum Flow *	0.25 gpm (1 lpm)
Operating Pressure Range	5...1000 psi (0.35...67 bar)
Operating Temperature Range	20...120° F (-5...50° C)
Accuracy – Oils	+/- 0.5% (+/- 0.5%)
Accuracy – Anti-freeze	+/- 1.5% (+/- 1.5%)
5-Digit LCD Display	10 mm high x 5 mm wide; displays Quarts (liters), pints, gallons
Inlet and Outlet Connections	1/2" NPT (1/2" BSPP)
* Tested with DTE-25 motor oil at ambient temperature. Minimum/maximum flow range will vary with fluid viscosity.	

DIMENSIONS



Control. Manage. Optimize.

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www.badgermeter.com

The Americas | Badger Meter | 4545 West Brown Deer Rd | PO Box 245036 | Milwaukee, WI 53224-9536 | 800-876-3837 | 414-355-0400
 México | Badger Meter de las Americas, S.A. de C.V. | Pedro Luis Ogazón N°32 | Esq. Angelina N°24 | Colonia Guadalupe Inn | CP 01050 | México, DF | México | +52-55-5662-0882
 Europe, Middle East and Africa | Badger Meter Europa GmbH | Nurtinger Str 76 | 72639 Neuffen | Germany | +49-7025-9208-0
 Europe, Middle East Branch Office | Badger Meter Europe | PO Box 341442 | Dubai Silicon Oasis, Head Quarter Building, Wing C, Office #C209 | Dubai / UAE | +971-4-371 2503
 Czech Republic | Badger Meter Czech Republic s.r.o. | Mařikova 2082/26 | 621 00 Brno, Czech Republic | +420-5-41420411
 Slovakia | Badger Meter Slovakia s.r.o. | Racianska 109/B | 831 02 Bratislava, Slovakia | +421-2-44 63 83 01
 Asia Pacific | Badger Meter | 80 Marine Parade Rd | 21-06 Parkway Parade | Singapore 449269 | +65-63464836
 China | Badger Meter | 7-1202 | 99 Hangzhong Road | Minhang District | Shanghai | China 201101 | +86-21-5763 5412