

## DESCRIPTION

The Field Verification Device is a portable test device for the Badger Meter M-Series<sup>®</sup> electromagnetic flow meters. The M2000 and the M5000 meters can be tested using this device.

With the Field Verification Device, accurate verification of meter functionality is assured without taking the meter out of the pipeline and interrupting the process. The complete verification test takes approximately 20 minutes and results can be downloaded to a Microsoft<sup>®</sup> Windows<sup>®</sup> 8, 7, Vista<sup>®</sup> or XP personal computer.

## FEATURES

- Determines if the meter amplifier is within one percent of the original factory calibration.
- Verifies the functionality of all the meter's inputs and outputs.
- Measures electrode resistance and integrity.
- Measures coil resistance and integrity.
- Measures coil insulation resistance.
- Measures current and frequency output.
- Evaluates the signal processing functionality.
- Provides pass/fail results to aid in troubleshooting.

## ACCESSORIES

- Test cable for M2000 and M5000 connection
- AC charger with EU/US connection adaptors
- Automobile utility DC power supply connector
- PC to Field Verification Device communication cables
- Rugged case for transport

## ACCURACY

<b>Amplifier</b>	Input Gain: +/- 0.1% Excitation Coil Current: 20...400mA +/- 0.1% Excitation Coil Frequency: 50/60Hz) +/- 1% Analog Outputs Current: 4...20 mA +/- 0.1% Digital Outputs: 1Hz/20 kHz - 0.1%
<b>Detector</b>	Coil Resistance: 40...120Ohm +/- 1 % Electrode Resistance (against ground: 100kOhm...10MOhm) +/-10% Coil Insulation (against ground: 100kOhm...10MOhm) +/-10%



## SPECIFICATIONS

<b>Dimensions</b>	8.3 × 4 × 1.5 inches (210 × 102 × 39 millimeters)
<b>Weight</b>	15.9 ounces (450 grams)
<b>Connectors</b>	One female D-25 Cannon connector for the meter harness communications port One USB 2.0 computer connection or 12V DC charging One 5V AC, 3.0A power connection for battery recharging
<b>Display</b>	Backlit LCD Resolution = 240 × 128 pixel, visible area 38 × 72 mm
<b>Keypad</b>	Nine navigation-function buttons Twelve alpha-numeric serial number buttons One On/Off button One battery status indicator
<b>Battery</b>	Rechargeable internal Li-pol accumulator with a charging time of four hours (USB or AC-wall) or two hours (automobile utility adapter)
<b>Protection Class</b>	IP46

## Control. Manage. Optimize.

M-SERIES is a registered trademark of Badger Meter, Inc. Other trademarks appearing in this document are the property of their respective entities. Due to continuous research, product improvements and enhancements, Badger Meter reserves the right to change product or system specifications without notice, except to the extent an outstanding contractual obligation exists. © 2015 Badger Meter, Inc. All rights reserved.

**[www.badgermeter.com](http://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