

OVERVIEW

The Field Verification Device is a portable test device for the Badger Meter M-Series® of electromagnetic flowmeters. The M-2000 and the M-5000 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 ("wet" test) and interrupting functionality. Meter diagnosis and calibration can be performed on-site. A "dry" test (removing the meter and bench-testing) can also be performed. The complete verification test consumes approximately 20 minutes and results can be downloaded to a Microsoft® Windows® XP or Vista® personal computer.

FEATURES

- Determines if the M-Series meter is within one percent of the original factory calibration.
- Verifies the functionality of all of the meter's inputs and outputs.
- Measures electrode resistance and integrity.
- Measures coil resistance and integrity.
- Measures coil insulation resistance.
- Measures current and frequency at previously selected flow rate.
- Evaluates the signal processing functionality.
- Verifies that there is no high-voltage noise disturbing the coil circuit.
- Provides certified printout showing test results.
- Capable of storing 100 meter tests

ACCESSORIES

- Test cable for M-2000 connection
- Test cable for M-5000 connection
- AC charger with EU/US connection adaptors
- Automobile utility DC power supply connector
- PC communication cables to Verification Device
- Pelican suitcase for transport



ACCURACY

Amplifier	Input Gain: +/-0.1 % Excitation Coil Current: 20-400mA +/- 0.1 % Excitation Coil Frequency: 50/60Hz) +/- 1 % Analog Outputs Current: 4-20mA +/- 0.1 % Digital Outputs: 1Hz/20 kHz) - 0.1 %
Detector	Coil Resistance: 40-1200hm +/-1 % Electrode Resistance (against ground: 100kOhm-10MOhm) +/-10 % Coil Insulation (against ground): 100kOhm-10MOhm) +/-10 %

SPECIFICATIONS

Dimensions	8.3 x 4 x 1.5 inches (210 x 102 x 39 millimeters)
Weight	15.9 ounces (450 grams)
Connectors	One female D-25 Cannon connector for the meter harness communications port One USB 2.0 computer connection or 12 VDC charging One +5 VAC, 3.0A power connection for battery recharging
Display	Backlit LCD Resolution = 240 x 128 pixel, visible area 38x72 mm
Keypad	Nine navigation-function buttons Twelve alpha-numeric serial number buttons One On/Off button One battery status indicator
Battery	Rechargeable internal Li-pol accumulator with a charging time of four hours (USB or AC-wall) or two hours (automobile utility adapter) Run time = six hours
Storage	200 meter tests (minimum)

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