

Electromagnetic Flow Meters

M1000, M2000 and M5000 Field Verification Device

DESCRIPTION

The Field Verification Device is a portable test device for the Badger Meter electromagnetic flow meters. The M1000, M2000 and 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[®] Windows[®] 8, 7, Vista[®]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 M1000, 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

Amplifier	Input Gain: +/- 0.1% Excitation Coil Current: 20400mA +/- 0.1% Excitation Coil Frequency: 50/60Hz) +/- 1% Analog Outputs Current: 420 mA +/- 0.1% Digital Outputs: 1Hz/20 kHz - 0.1%
Detector	Coil Resistance: 401200hm +/-1 % Electrode Resistance (against ground: 100kOhm10MOhm) +/-10% Coil Insulation (against ground: 100kOhm10MOhm) +/-10%



SPECIFICATIONS

Dimensions	$8.3 \times 4 \times 1.5$ inches (210 \times 102 \times 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 12V DC charging One 5V AC, 3.0A power connection for battery recharging
Display	Backlit LCD Resolution = 240 × 128 pixel, visible area 38 × 72 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)
Protection Class	IP46



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Product Data Sheet

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