

Level Mate™ II

Level Measurement System



The standard system includes the Level Mate II Controller and Model 575 Submersible Level Transmitter. The Level Mate II Controller is also compatible with our other level sensors*. Please contact Customer Service for more information.

* Please note, only the Model 575S and 575P carry the intrinsically safe rating.

Description

The AMETEK LEVEL MATE II Level System uses a Model 575 stainless steel transmitter as standard. A series of perforations in the bottom of the unit protects the sensing port from either clogging or damage. The same snub-nosed end can also unscrew, allowing for easy calibration checks.

The customized LEVEL MATE II meter displays data from the transmitter, provides excitation voltage and transmits an analog signal for remote recording, alarm or control functions. It is easy to calibrate by front panel adjustments. Its dual-programmable setpoints permit high-high, low-low, or high-low control with adjustable

hysteresis. The large, easy-to-read LED display gives local indication while the optional isolated analog output can interface with ancillary display, recording or control devices. Combined into one convenient package, the AMETEK LEVEL MATE II Level System provides you with the most versatile level measurement system on the market!

Features

- Two-year factory warranty on the system
- Intrinsically safe (Model 575S and 575P)
- Solid-state silicon sensor with milliamp output
- Rugged stainless steel sensor housing – excellent environmental protection
- Excellent media compatibility
- Sensor vented to the atmosphere through the surface end of the cable
- Microprocessor-controlled meter for quick, easy setup and calibration
- Selectable setup via 2 front keys or via a PC with optional Infrared LED pen
- Programmable dual setpoints
- Meter can be calibrated for inches of water, feet of water, meters of water, or any desired engineering units
- Easily programmed to read “Drawdown”
- Compact NEMA 4X weathertight housing
- Large, easy-to-read 4 digit LED display
- Optional lightning and secondary surge protection

Advantages

- Complete easy-to-use system – all in one package
- Variety of reliable stainless steel sensors
- Microprocessor-controlled digital display
- Setpoints and signal outputs for remote monitoring, recording and control
- Continuous measurement and display
- Simple installation – virtually no maintenance
- Low system pricing

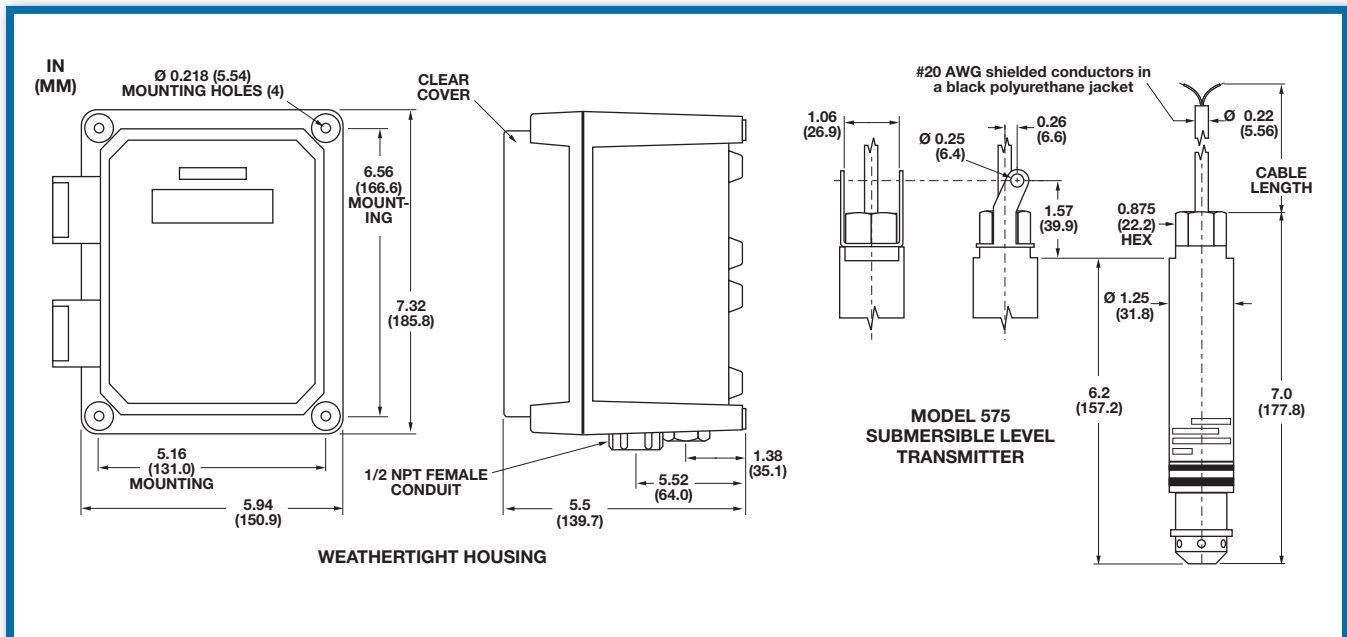
Level Mate II Level Measurement System

Specifications

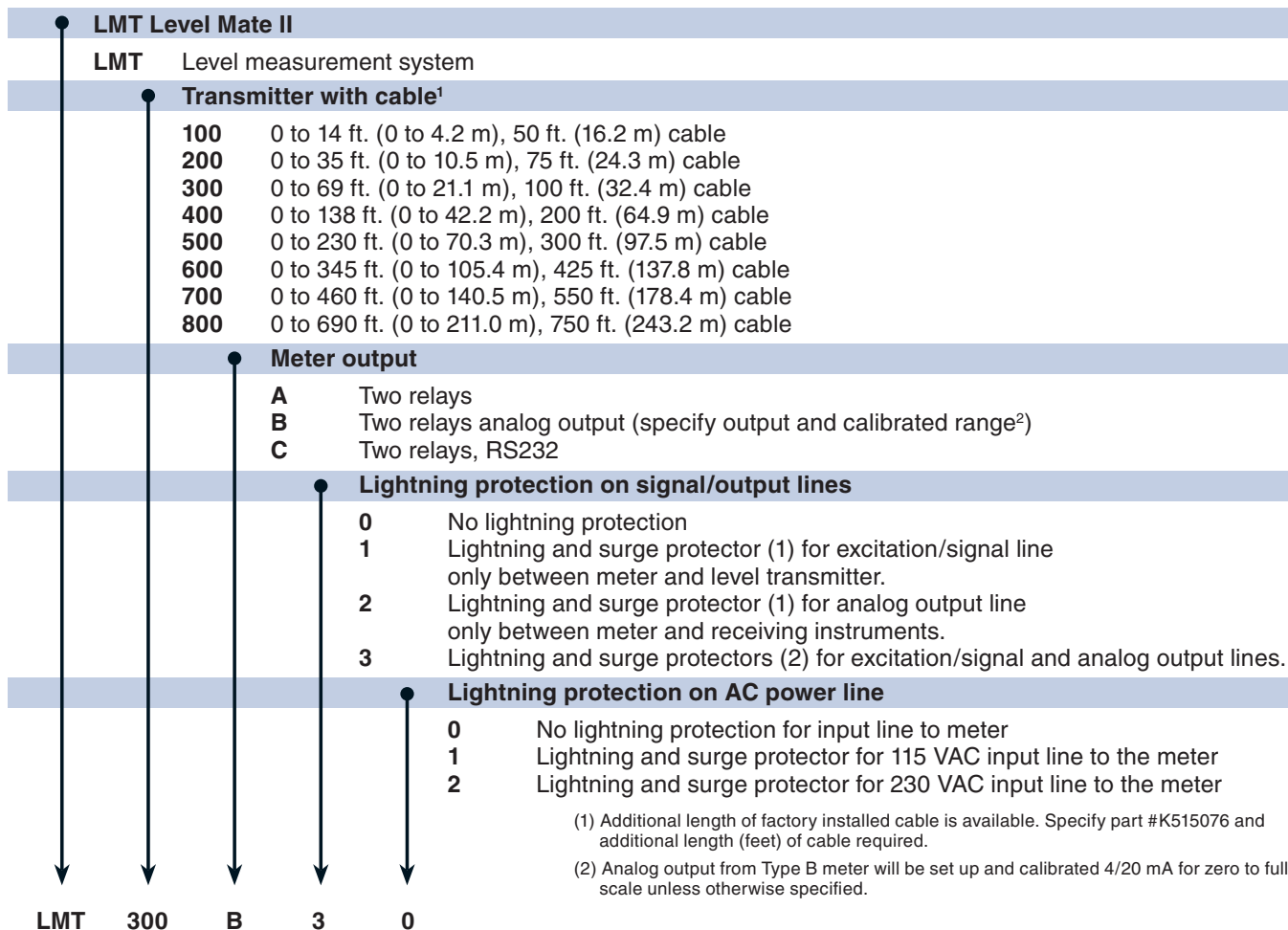
- Ranges:**
 Feet of Water: 0 to 14, 0 to 35, 0 to 69, 0 to 138, 0 to 230, 0 to 345, 0 to 460, 0 to 690
 Meters of Water: 0 to 4, 0 to 10, 0 to 21, 0 to 42, 0 to 70, 0 to 105, 0 to 140, 0 to 210
- Transmitter Temperature Ranges (Model 575):**
 Max. Operating: -40° to 82°C (-40° to 180°F); media must not freeze
 Compensated: -5° to 55° C (23° to 130°F)
 Temp. Effects: Typical ±1% output change for ±25° C temp. change within compensated range when calibrated at 25°C
 Accuracy: ±0.25% full scale (including linearity, hysteresis, repeatability) B.F.S.L.
- Transmitter Output:** 4 to 20mADC, limited to 30 mADC
- Transmitter Power Supply:** 24 VDC from meter
- Transmitter Electrical Connection:** Attached #20 AWG polypropylene insulated and shielded conductors in a black polyurethane jacket. Unspliced lengths to 3000 ft. (1622 m)
- Meter Housing Construction:** Fiberglass reinforced polyester with a transparent polycarbonate hinged cover
- Transmitter Cable Color Code:** RED (+) excitation, BLACK (-) excitation, GREEN (caseground).
- Transmitter Construction (Model 575)**
 Diaphragm: Type 316L stainless steel
 Housing Type: 316 stainless steel
 Nut/Washer Type: 316 stainless steel
 Cable Grommet: Viton
 See other data sheets for other models.
- Meter Display:** 4 digit, 0.56 inch high (13 mm), LED display
- Meter Input Voltage:** 90 to 264 VAC at 47 to 70 Hz
- Meter Power Consumption:** 4 VA
- Meter Ranges:** Calibrated to transmitter range in psi, inches, feet, meters of water, or other desired engineering units -1999 to 9999.
- Meter Temperature Ranges** Operating: -10° to 60° C (14° to 140°F)
 Storage: -40° to 85°C (-40° to 185°F)
- Meter Output:** 0 to 20 mA, 4 to 20 mA or 0 to 10 V, 1 to 5 V selectable. Adjustable over a user-defined part of the reading via keypad setup.
- Meter Relay Outputs:** N.O.; 250 VAC at 5A, 24 VAC at 1A

Specifications subject to change without notice

Dimensions



Model Numbering:



| Accessories & Replacement Parts | |
|---------------------------------|--|
| K515076 | Additional factory-installed waterproof cable |
| K554149 | Metal conduit connector for NEMA 4x weathertight housing |
| K554127 | Cable strain relief cord grip for NEMA 4x weathertight housing 0.11 in. to 0.26 in. |
| K574533 | Analog output circuit board |
| K574534 | RS232 output circuit board |
| K554148 | Cable strain relief cord grip for NEMA 4x weathertight housing 0.20 in. to 0.35 in. |
| LMA912 | Lightning and surge protector for excitation and signal lines between meter and milliamp transmitter |
| LMA918 | Lightning and surge protector for 115 VAC input line to the meter. |
| LMA919 | Lightning and surge protector for 230 VAC input line to the meter |

Level Mate II Level Measurement System



820 Pennsylvania Boulevard • Feasterville, PA 19053 • U.S.A.
Tel: 215-355-6900 • Fax: 215-354-1802 • www.ametekpmt.com

© AMETEK, Inc. All rights reserved • Printed in the U.S.A. • PDF608 (110100) K796443