LOOP INDICATORS



Affordable Analog and Digital Indication

- Rugged NEMA 4X Case
- Wall Mount or Horizontal/Vertical 2" Pipe Mount
- FM and CSA Approved Versions
- ATEX Approved Certain Models Only
- Less than 1.0V Voltage Drop MLD1 Only
- 6 Digit Field Configurable Display and Square Root Extraction - MLX Only







MLD



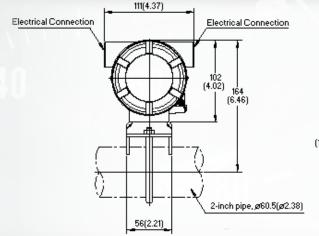
MLD1

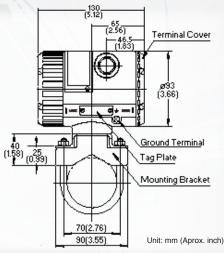


MLX

Model MLA, MLD, MLD 1 & MLX Loop Powered Process Indicators

Dimensions







Model MLA (Analog)

Input Resistance: < 6.5 ohm (MLA 4-20mA).

< 13.5 ohm (MLA 10-50mA),

~4K ohm (MLA 1-5V)

Scale: Black. Analog single graduations 0-100% standard. Digital 0-100.0% w/decimal standard.

Accuracy: ± 1.5% of full scale Operating Temperature Range: -20 to

60°C (MLA)

Insulation Resistance: Between input terminals and case 100 Mohm at 500 V DC Dielectric Strength: Between input

terminals and case: 1000 VAC for 1 minute. Mounting: Nominal 2" (50mm) pipe mount or surface

Electrical Classification: FM, CSA EXPLOSIONPROOF CL1, DIV1, GPS A,B,C,D, DUST-IGNITIONPROOF CLII / III,

GPS E,F,G

Case and Cover: Die cast aluminum, baked polyurethane paint. Dark green; NEMA 4X Electrical Connection: 1/2 NPT

Weight: 3.0 lbs (MLA)



Model MLD (Digital)

Input Resistance: < 6.5 ohm (MLA 4-20mA), < 13.5 ohm (MLA 10-50mA),

~4K ohm (MLA 1-5V)

Voltage Drop: 1.8V typ., 2V max. (MLD) Scale: Black. Digital 0-100.0% w/decimal

Accuracy: ± 0.05% of full scale (1999) +1 digit (MLD)

Operating Temperature Range: 0 to

60°C (MLD)

Temperature drift: ±0.3digit/°C (MLD) Insulation Resistance: Between input terminals and case 100 Mohm at 500 V DC

Dielectric Strength: Between input terminals and case: 1000 VAC for 1 minute. Mounting: Nominal 2" (50mm) pipe mount

or surface. Electrical Classification: FM, CSA, EXPLOSIONPROOF CL1, DIV1, GPS A,B,C,D, DUST-IGNITIONPROOF CLII / III,

Case and Cover: Die cast aluminum, baked polyurethane paint. Dark green; NEMA 4X Electrical Connection: 1/2 NPT Weight: 2.7 lbs (MLD)



Model MLD1 (Digital)

Input: 4-20mA 2-wire

Voltage Drop: Less than 1 Volt at 20mA

Accuracy: ± 1 digit

Display: 3 1/2 digit LCD. Height 12.5mm Decimal Point: Selectable by DIP switch Ambient Temperature: -10 to 70° C

Over Range: ± 200mA without damage Rangeability: Zero can be set between

-1300 and +1999

Span is Fully adjustable ±1999 Method: DIP switches and multi-turn

poteniometers

Vibration: 3G @ 9-80Hz, 1G @ 80-150Hz

Shock: 50G

Mounting: Nominal 2" (50mm) pipe mount

or surface. (horizontal or vertical)

Explosion Protection: ATEX Intrinsically Safe (II 1 Ga Ex ia IIC T5, Tamb - 10° C to 70° C; Supply circuit: Ui = 28V; li = 93mA, Pi = 0.65W, Ci = 25nF, Li = 3.3mH

Certificate: ITS09ATEX26770X

Enclosure Degrees of Protection: IP67 Case and Cover: Aluminum alloy casting Paint: Polyurethane resin baked finish Deep sea moss green (equivalent of Munsell

Electrical Connection: ½ NPT female

0.6GY3.1/2.0) Weight: 2.7 lbs.



Model MLX

Input: 4-20mA 2-wire

Voltage Drop: 3.5 Volt at 20mA Accuracy: ± 0.05 of full scale + 1 digit

Display: Numerical; Six 7-segment digits Alpha-numerical: Six 14-segment

characters

Bar graph: 20-segment bar graph Symbols: P, SP, T, F, %,√, x10, x100, x1000

Configuration: User configurable for desired engineering units.

Zero & Span: Zero and span can be set between ±999999

Ambient Temperature: -30 to 60° C Over Range: 200mA without damage

Vibration: 3G @ 10-150Hz

Shock: 50G

Mounting: Nominal 2" (50mm) pipe mount or surface. (horizontal or vertical)

Explosion Protection: FM, CSA, ATEX,

Enclosure Degrees of Protection: NEMA

Case and Cover: Aluminum alloy or Stainless steel casting

Paint: Polyurethane resin baked finish. Deep sea moss green (equivalent of Munsell 0.6GY3.1/2.0)

Electrical Connection: 1/2 NPT female or M20 female

Weight: 2.7 lbs. without mounting bracket; 3.05 lbs. with mounting bracket



