

General Specifications

Model MLD1 Loop Powered Process Indicator

GS 61A02A01-01E-A

The Model MLD1 field mounted indicator receives DC current signals from electronic Transmitters and indicates process measurement values. Standard models are ATEX rated.



STANDARD SPECIFICATIONS MODEL MLD1

Input: 4-20mA 2-wire
Voltage Drop: Less than 1 Volt at 20mA
Accuracy: ± 1 digit
Display: 3 ½ digit LCD. Height 12.5mm
Decimal Point: Selectable by DIP switch
Ambient Temperature: -10 to 70°C **Over range:** ± 200 mA without damage
Rangeability: Zero can be set between -1300 and +1999
 Span is fully adjustable ± 1999
 Method: DIP switches and multi-turn potentiometers
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: $U_i = 28$ V, $I_i = 200$ mA, $P_i = 0.85$ W, $C_i = 0$, $L_i = 0$, 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 0.6GY3.1/2.0)
Electrical Connection: ½ NPT female or M20
Weight: 2.7 lbs

Model and Suffix Codes

| Model | Suffix Codes | Description |
|-------------------------|--------------|---|
| MLD1 | | Field Mount Loop Indicator |
| Input signal | -A..... | 4 to 20mA DC |
| Mounting | 1..... | 2 inch Horizontal Pipe |
| | 2..... | 2 inch Vertical Pipe (or wall mount) |
| Optional Specifications | | |
| Ex Protection | /KS1..... | ATEX Intrinsically Safe Approval |
| Calibration | /ENG | Engineering Unit Calibration |
| Stain Steel Tag | /SST | Stainless Steel tag screw attached to housing |
| | /SSW | Stainless Steel tag wired to housing |
| Electrical Connection | /00..... | ANSI ½ NPT Female Without Blind Plug |
| | /10..... | ANSI ½ NPT Female with 304 SST Blind Plug |
| | /20..... | ANSI ½ NPT Female with 316 SST Blind Plug |
| | /30..... | ISO M20 Female Without Blind Plug |
| | /40..... | ISO M20 Female with 316 SST Blind Plug |
| Housing | /1..... | Cast Aluminum Alloy |
| Coating | /X1 | Epoxy resin coating |
| | /X2 | Polyurethane-Epoxy Anti-corrosion coating |
| Paint | /P1 | Light Blue (RAL # 5012) |
| | /P2 | Orange (RAL # 2008) |
| | /P3 | Red (Munsell # 7.5 R4/14) |
| | /P4 | Mint Green |
| | /P5 | Silver (RAL # 9006) |
| | /P6 | Yellow (RAL # 1018) |
| | /P7 | Gray (RAL # 7046) |

■ ORDERING INSTRUCTIONS

1. Model and suffix codes.
2. Option codes.
3. Scale range and unit markings desired.
4. Tag number.

■ OPTIONS

Scaling: Special calibration in Engineering Units (/ENG). Max. value = 1999

Other: Stainless Steel Tag, Electrical Connections, /X1 or /X2 Coating and Paint Color. /SST (limited to 12 Characters) or /SSW Tag

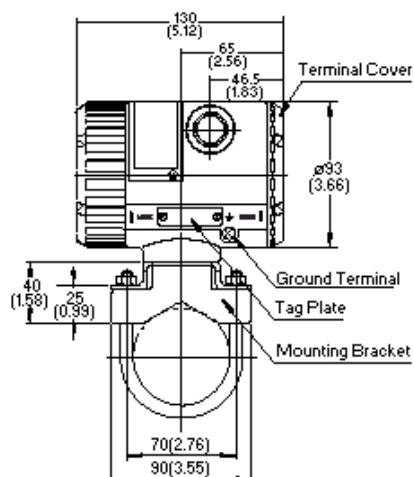
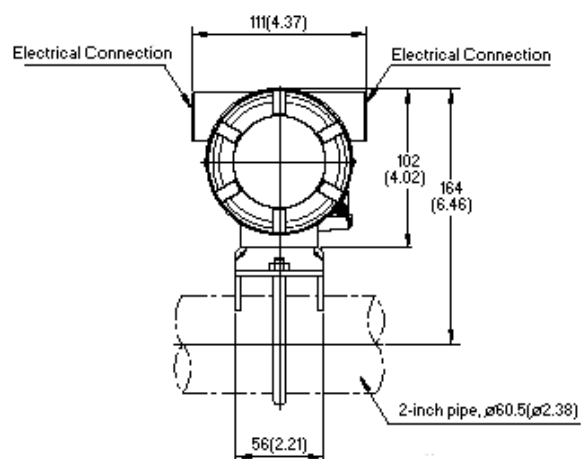
Example Ordering Instructions:

MLD1-A1/KS1/ENG/SST/1/1 (Field Mounted Loop Indicator, 4 to 20mA DC, 2" Horizontal Pipe, ATEX Intrinsically Safe, Calibration, ½ NPT plug, Aluminum housing)

0-200 InH₂O Scale in Engineering Units. Please specify Scale and Engineering units when ordering
/ENG. FT-201 Specify Tag Number when ordering /SST; Up to 12 Characters.

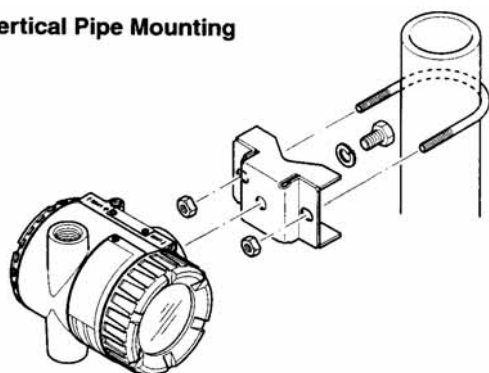
DIMENSIONS

Unit: mm (Approx. inch)

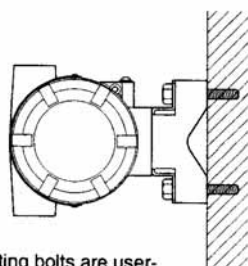


MOUNTING

Vertical Pipe Mounting

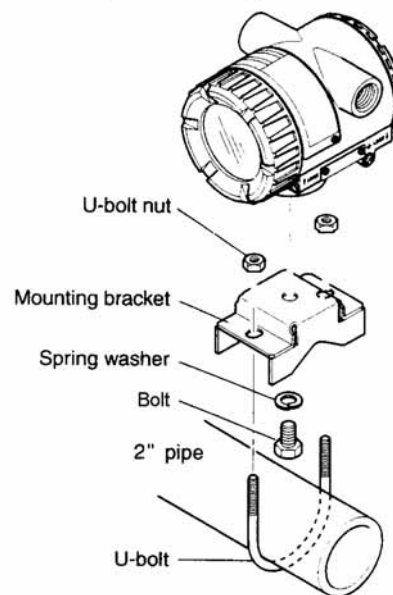


Wall Mounting



Note: Wall mounting bolts are user-supplied.

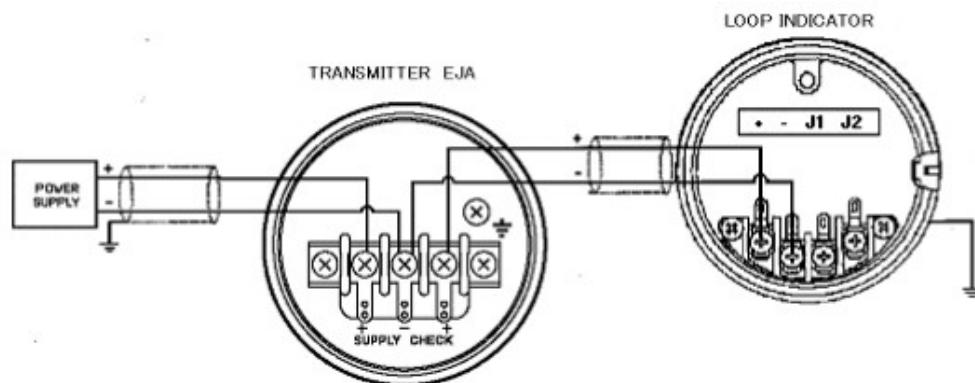
Horizontal Pipe Mounting



WIRING

The loop powered indicator series is powered by the current output loop and does not require external power. All devices must be wired in series with the current loop. Twisted pair shielded cable is recommended.

The following is a typical wiring example of the MLD1 Loop Indicator connected to an EJA Pressure Transmitter with the /J12 option. The voltage drop is low enough that you can connect it across the Check Terminals.



The following is another wiring example of the MLD1 Loop Indicator connected to an EJA Pressure Transmitter (Note: The EJA Transmitter below can be replaced with any 4-20mA 2 wire device).

