



INTERMEDIATE RANGE LASER LEVEL & POSITIONING TRANSMITTER

LASERMETER Model LM80

FEATURES

- Range up 100 ft. / 30m (level applications) and up to 500 ft. /150 m (positioning applications)
- No Beam Divergence = No False Echoes
- Measures any Surface at Any Angle
- Rugged and Robust Aluminum Enclosure
- Built-in Purge Port (1/8" FNPT)
- No Calibration Required
- No Special Configuration Software Required
- Last Pulse Detection for Measurment with Light Dust

OPTIONS

- Stainless Steel Mounting Plate (MP)
- ANSI / DIN Flanges
- Laser Communication Device (LCD2)
- Laser Pointer
- Built-in Heated Glass
- Portable Power Pack (PPK)

LM80 Shown with Cable Gland



LM80 Shown with Standard Dust Tube

SPECIFICATIONS

Measurement Range

LevelDark color surface 1.5ft/0.5m to 60ft/18m -black plastic pelletsLevelLight color surface 1.5ft/0.5m to 100ft/30m -plastic pellets, grainPositioningReflective targets1.5ft/0.5m to 500ft/150m -tripper car, overhead crane

Resolution 0.4 in. / 10 mm.
Accuracy ± 1.5 in. / 30 mm.
Update Rate 3 readings / second to

Output

Analog 4-20 mA, NAMUR Compliant

Active, Self Powered

Serial RS232 for Testing, Troubleshooting,

1 reading / 60 seconds

and Configuration

Switching 2 SPST Relays (not available with built-in heated glass)

AC Rating Max 1A resistive @ 120 VAC and 0.5A@ 250VAC

Max 1A @ 60VDC, 60W

DC Rating Max 1A @ 120 VAC

Inductive

Electric 24 VDC (16-32 VDC)

Power

Load

Power Consumption Start Up 6 Watts

Running 0.4 Amp Peak; 0.2 Amp Continuous

0.35 Amp with built-in heated glass

Laser Safety Class 1 Eye Safe;

EN60825; IEC 825-1:1993

Approvals General purpose only

Optical

Optical Aperture 3 in. / 80 mm

Laser Beam Diameter 1.5 in. / 30 mm

Receiver Beam Diameter 1.97 in. / 50 mm

Beam Divergence <0.2°

Environmental

Operating Temperature -40° to 150°F / -40° to 65°C

Pressure Atmospheric Electrical Connection 1/2" FNPT

1x cable gland supplied

Dimensions

Diameter 4.3 in. / 110 mm

Length 6.9 in. / 175 mm

Weight 3.25 lbs. / 1.5 kg.

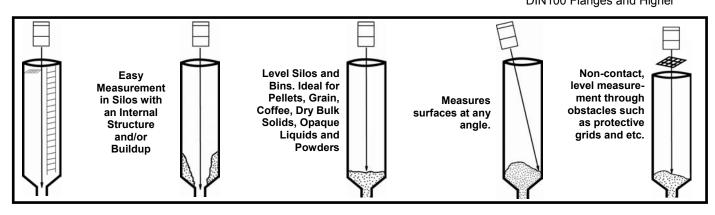
Enclosure Dual Compartment Powder Coated

Aluminum .

Enclosure Rating IP65

Process Connection Requires minimum opening

of 3 in / 80 mm and is adaptable to ANSI Flanges 4" / DIN100 Flanges and Higher



ORDERING INFORMATION:

LM80 / a / b:

/a Unit Options

- **SX** Standard Unit without Laser Pointer (level applications only)
- **SL** Standard Unit with Laser Pointer (level applications only)
- HL Laser Unit with built-in heated glass & Laser Pointer (level applications only with possible condensation on the optic) (See note below.)

Note: LM80 with built-in heated glass is with general approvals only. Switching relays are not available with this option.

Pxxx Positioning Unit with Laser Pointer (positioning applications only). Specify the application maximum positioning range in feet. For example: 75 feet = P075 (See note below.)

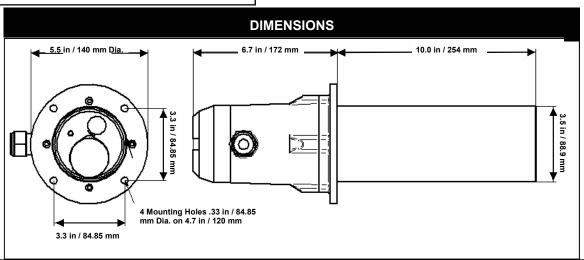
Note: For **positioning applications only**, the following accessories are **mandatory** for optimal performance and will be supplied with the positioning laser transmitter: **MP1LM80** Standard Dust Tube, **REFM** Reflector and **ADJ4** Adjustable Mounting Bracket.

/b Approvals

X None

AVAILABLE OPTIONAL ITEMS:								
LCD	prog Note impl	Laser Communication Device for programming and demo purposes Note: Programming also can be implemented with Desktop PC, Laptop or PDA						
ADJ		Adjustable Mounting Bracket - For Flexible Aiming						
REFI		Reflector 20" x 20"/ 50cm x 50cm - for positioning applications						
PPK		Battery powered pack-for demo purposes and mobility						
TERMINAL CONNECTIONS								
Ø Earth								
	ISOL	ATED RE	ELAYS	4-20	0v	24v		
	СОМ	Α	В	OUT	СОМ	+		
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REQUIRED MOUNTING ACCESSORIES Select Only One:						
MP1 LM80	Standard 304 SS Dust tube and mounting plate bolt pattern identical to LM80 flanged face plate. (See Dimensions below)					
MP4 LM80	304 Stainless steel mounting plate with 4" 150# ANSI and DIN100 PN10 bolt pattern and integral dust tube					
MP6 LM80	304 Stainless steel mounting plate with 6" 150# ANSI and DIN125 PN10 bolt pattern and integral dust tube					
	ANSI	DIN				
ANSI/DIN Flanges are supplied with Integral Dust Tube						
-	F LGLM80S44 04SS RF Flange	FLGLM80S4DN100 DIN 100 PN10 304SS RF Flange				
_	FLGLM80S46 04SS RF Flange	FLGLM80S4DN125 DIN 125 PN10 304SS RF Flange				
		- Tange				



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