



LOW COST LASER LEVEL & DISTANCE TRANSMITTER

Laser Measurement (Pty)

Model LM80/L

FEATURES

- Long Range to 80 ft. / 25 m
- No Beam Divergence = No False Echoes
- Measures any Surface at any Angle
- Rugged and Robust Enclosure
- Built-in purge port
- Last Pulse Detection for Measurement with Light and Moderate Dust
- Automatic Color Compensation
- Aiming laser pointer

OPTIONS

- Flanges
- Dust Tube
- Laser Communication Device (LCD2)
- Hand-Held Programmer (Palm Z71)
- Built-in heated glass



LM80 Shown with Cable Gland



LM80 Shown with optional dust tube

SPECIFICATIONS

Measurement Range

Range	Up to 80 ft. / 25 m
Resolution	0.4 in. / 10 mm.
Accuracy	± 1 in. / 25 mm.
Update Rate	6 readings / second to 1 reading / 60 seconds

Output

Analogue	4-20 mA, NAMUR Compliant Active, Self Powered
Serial	RS232 for Testing, Troubleshooting, and Configuration
Switching	2 SPST Relays
AC Rating	Max 1A resistive @ 120 VAC and 0.5A @ 250VAC

DC Rating Max 1A @ 60VDC, 60W

Inductive Load Max 1A @ 120 VAC

Electric Power 24 VDC (18-32 VDC)

Power Consumption

Start Up	6 Watts
Running Normal	0.4 Amp Peak ; 0.2 Amp Continuous

Laser Safety

Main laser: Class 1M
Aiming laser: Class 3R
EN60825; IEC 825-1:1993
Caution: Do not stare directly into the laser beam while the laser is running.

Approvals

FM CL II & III; Div. 1 & 2; Gr. E, F, & G, DIP
IEC DIP A21/22 IP66 T_AT₆
CSA CL II & III, Div. 1 & 2, Gr. E, F & G, DIP
ATEX II D ZONE20/21/22 (Pending)

Optical

Optical Aperture	3 in. / 90 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 Gland Connection Dimensions

Diameter	4.3 in. / 110 mm
Length	6.9 in. / 175 mm
Weight	3.25 lbs. / 1.5 kg.

Enclosure

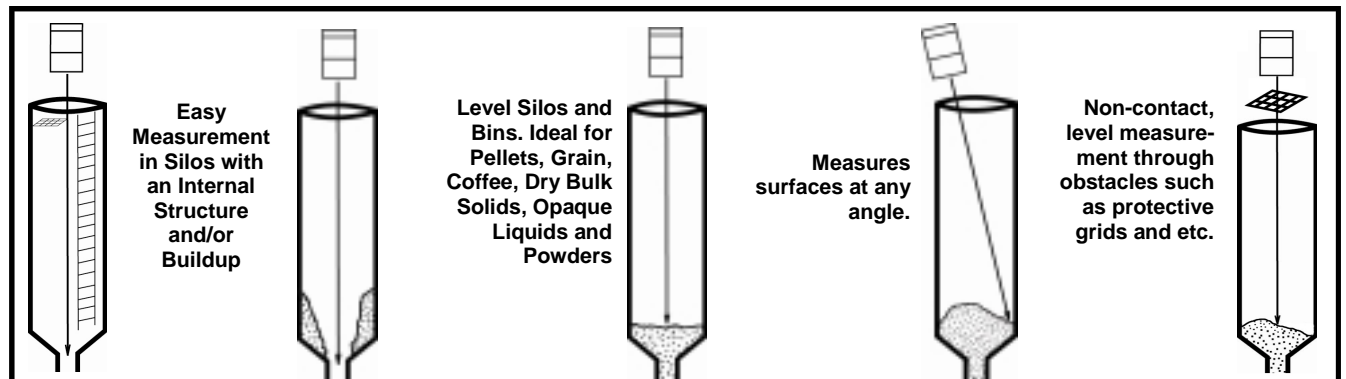
Dual Compartment Powder Coated Aluminum

Enclosure Rating

IP65

Process Connection

Adaptable to ANSI Flanges 4" / DIN100 Flanges and Higher



ORDERING INFORMATION:

LM80 / o :

/o/L

/S Standard 0.5 - 25 m

/C Hot glass (for anti-condensation) 0.5 - 25 m


/Hygiene Level unit for Hygienic conditions 0.5 - 25 m

Ordering code

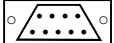
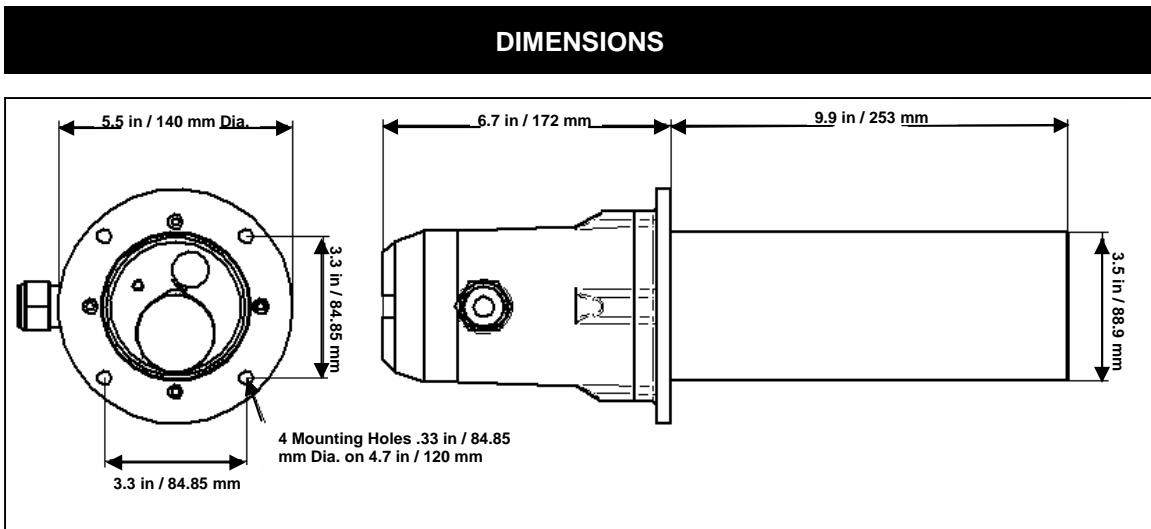
LM80/S/25

LM80/C/25 (Does not have mechanical relays)

LM80/Hygiene

AVAILABLE OPTIONAL ITEMS:	
TUB_LM80	Dust Tube: Powder coated mild steel
FLG	Custom made at additional cost
LCD2	Laser Communication Device for programming and demo purposes 
COM 1	Communication cable to PC, laptop or handheld for programming and data logging. Includes software for setup and programming.

TERMINAL CONNECTIONS					
○	Earth				
ISOLATED RELAYS			4-20	0v	24v
COM	A	B	OUT	COM	+
∅	∅	∅	∅	∅	∅

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