



HIGH PERFORMANCE LASER, LEVEL & POSITIONING TRANSMITTER



Series

Model LM200

FEATURES

- Long Range to 200 ft. / 60 m
- No Beam Divergence = No False Echoes
- Measures any Surface at any Angle
- Rugged and Robust Enclosure
- Built-in Laser Pointer
- No Calibration Required
- No Special Configuration Software Required

OPTIONS

- Flanges
- Dust Tubes
- Hand-Held Programmer (PDA)



LM200 Shown with Cable Glands

SPECIFICATIONS

Measurement Range

Range	Up to 200 ft. / 60 m.
Resolution	0.4 in. / 10 mm. (65 ft. / 20 m range)
Accuracy	± 1 in. / 25 mm. (65 ft. / 20 m range)
Update Rate	3 readings / second to 1 reading / 250 seconds

Output

Analog	4-20 mA, NAMUR Compliant Isolated or Non-Isolated (field selectable)
Serial	RS232 for Testing, Troubleshooting, and Configuration
Switching	2 solid state switches; (2 NMOS transistors); Max 40 VDC at 150mA; may require pull up resistors

Electric Power

24 VDC (16-32 VDC)
110 VAC (±10% / 50Hz to 60Hz)
220 VAC (±10% / 50Hz to 60Hz)

Power Consumption

Start Up	6 Watts
Running Normal	0.25 Amp Peak ; 0.15 Amp Continuous

Laser Safety

Class 1 Eye Safe;
EN60825; IEC 825-1:1993

Approvals

FM CL II & III; Div. 1 & 2; Gr. E F, & G, DIP
IEC DIP A21/22TAT6

Optical

Optical Aperture	4 in. / 100 mm.
Laser Beam Diameter	1.97 in. / 50 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

2x 1/2" FNPT
2x Cable Gland Supplied

Dimensions

Diameter	5.25 in. / 135.5 mm.
Length	12 in. / 305 mm.
Weight	9.9 lbs. / 4.5 kg.

Enclosure

Dual Compartment Powder Coated
Aluminum

Enclosure Rating

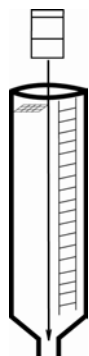
IP65

Process Connection

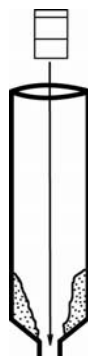
Adaptable to ANSI Flanges 4" /
DIN100 Flanges and Higher



LM200 Shown with Optional
Dust Tubes



Easy
Measurement
in Silos with
an Internal
Structure
and/or
Buildup



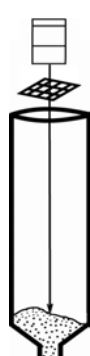
Level Silos and
Bins. Ideal for
Pellets, Grain,
Coffee, Dry Bulk
Solids, Opaque
Liquids and
Powders



Measures
surfaces at any
angle.






Non-contact,
level measure-
ment through
obstacles such
as protective
grids and etc.



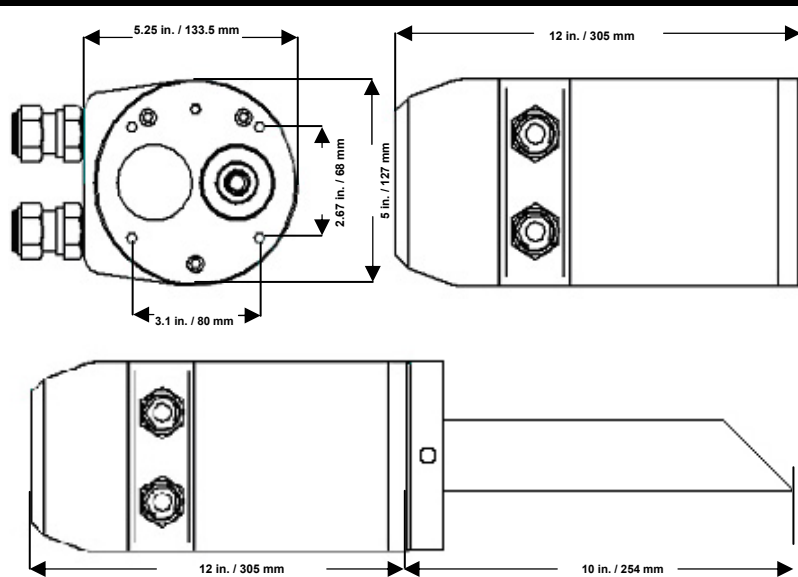
FLANGE ADAPTER TABLE

ANSI	DIN
FLGLM200/SS4/4"	FLGLM200/SS4/DIN100
FLGLM200/SS6/4"	FLGLM200/SS6/DIN100
FLGLM200/SS4/6"	FLGLM200/SS4/DIN125
FLGLM200/SS6/6"	FLGLM200/SS6/DIN125

AVAILABLE OPTIONAL ITEMS:


REFL	Reflector: 36" x 36" / 1 m x 1 m
REFS	Reflector: 10" x 10" / 25 cm x 25cm
REFM	Reflector: 20" x 20" / 50cm x 50cm
TUB4S	Dust Tubes: 316/316L Stainless Steel Construction Includes purge ports (1/8" FNPT)
FLG	Specify from flange adapter table
PDA	PDA with Palm OS: communication software and communication cable 
HPSG	ANSI 4" High Press./ Temp. sight glass unit. Includes sight glass, spray ring, & flange for non-contact, non-intrusive level measurement in pressurized reactor vessels. Max press. 150 PSI / 10 Bar; Max temp. 450°F / 232°C 
LEX	4" ANSI Lexan® Sight Window for enclosed vessels with atmospheric press. & Max temp. 212°F / 100°C 

DIMENSIONS



TERMINAL CONNECTIONS

24 VDC		COMMS		4-20 mA	
+	-	Rx	Tx	OUT	IN
∅	∅	∅	∅	∅	∅
∅	∅	∅	∅	∅	∅
L	N	NC	NC	B	A
220 VAC 110 VAC		Not in Use		Solid State Switches	

Earth 

DB9 RS232 Port

- Non-isolated 4-20 mA output requires jumper between +24 VDC terminal and 4-20 mA (IN) terminal
- Isolated 4-20 mA output requires +24VDC power supplied from customer device