



# LASER DISTANCE, LEVEL & POSITIONING TRANSMITTER

Laser Measurement (Pty) Ltd

Model LM200/C

## FEATURES

- Auto Ranging to 200 ft. / 60 m on level and 350m on reflector
- No Beam Divergence = No False Echoes
- Measures any Surface at any Angle or reflective target for positioning applications
- Rugged and Robust Enclosure
- Built-in Laser Pointer
- No Calibration Required
- USET - User Selectable, Application Specific

## OPTIONS

- Dust Tubes & Flange
- Laser Communication Device (LCD2)
- Hand-Held Programmer (PZ71)
- Com 1
- Reflector board (REFL)
- Communication modules



LM200 Shown with Cable Glands

## SPECIFICATIONS

### Measurement Range

Range	Up to 200ft. / 60 m. level and 350m on reflector
Resolution	0.4 in. / 10 mm.
Accuracy	± 1 in. / 25 mm.
Update Rate	3 readings / sec on level 1 reading / sec on positioning over 175m 1 reading /1.5 sec on positioning over 350m

### Output

Analog	4-20 mA, NAMUR Compliant Isolated or Non-Isolated (field selectable)
Serial	RS232 for Testing, Troubleshooting, and Configuration
Switching	2 SPST Relays Max 60 VDC 1A
AC Rating	Max 220 VAC 5A
DC Rating	Max 60 VDC 1A

### 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

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 IP65 T<sub>A</sub>T<sub>4</sub>

### LM200 Shown with Optional Dust Tubes



### 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 Gland Connection Dimensions

Diameter	5 in. / 127 mm.
Length	12 in. / 300 mm.
Weight	9.9 lbs. / 4.5 kg.

### Enclosure

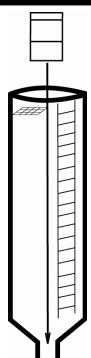
Dual Compartment Powder Coated Aluminum

### Enclosure Rating

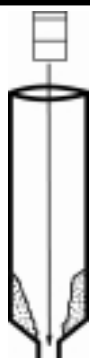
IP65

### Process Connection

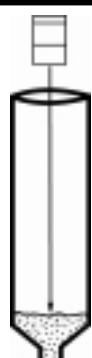
Adaptable to ANSI Flanges 4" / DIN100 Flanges and Higher



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



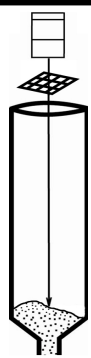
Level Silos and Bins. Ideal for Pellets, Grain, Coffee, Dry Bulk Solids, Opaque Liquids and Powders



Measures surfaces at any angle.



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



**ORDERING INFORMATION:**

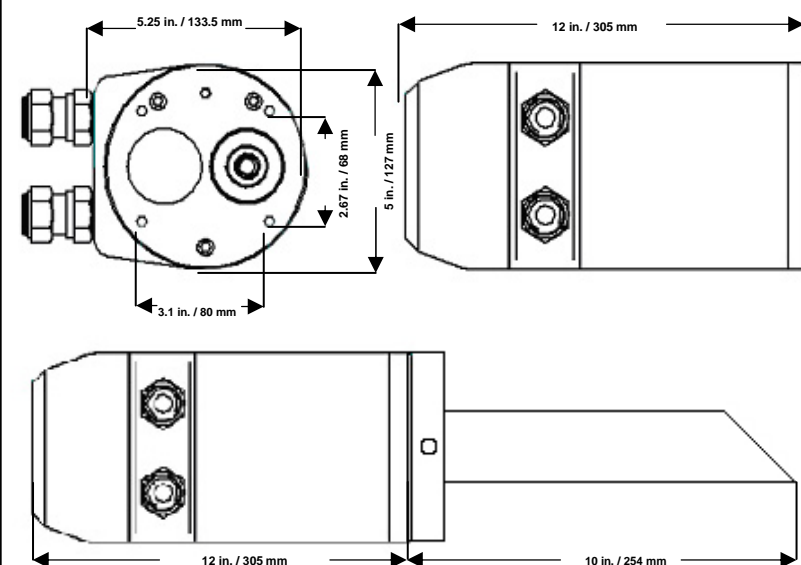
LM200 / r :

/o	Range	Ordering Code
/C	20 0.5 - 60 m	LM200/C

**Select Communication**

<b>Lascom</b>	Hart type	LM200/C Lascom
<b>GSM</b>	GSM	LM200/C GSM
<b>RS232</b>	RS232	LM200/C RS232

AVAILABLE OPTIONAL ITEMS:	
<b>REFL</b>	<b>Reflector:</b> 36" x 36" / 1 m x 1 m
<b>REFS</b>	<b>Reflector:</b> 20" x 20" / 50cm x 50cm
<b>TUB3</b>	<b>Dust Tubes:</b> 316/316L Stainless Steel Includes mounting flange
<b>FLG</b>	Custom made at additional cost
<b>LCD2</b>	<b>Laser Communication Device</b> for programming and demo purposes 
<b>PZ71</b>	<b>Hand held programmer</b> with Communication Software and Cable. Current Model: Palm Zire71 (Consult factory for model availability) 
<b>COM1</b>	<b>Communication cable</b> to PC, laptop or handheld for programming and data logging

DIMENSIONS		TERMINAL CONNECTIONS																																					
		<table border="1"> <thead> <tr> <th colspan="2">110/220 VAC</th> <th colspan="2">Not Connected</th> <th colspan="2">24 VDC</th> </tr> <tr> <th>N</th> <th>L</th> <th></th> <th></th> <th>-</th> <th>+2V DC</th> </tr> </thead> <tbody> <tr> <td>Ø</td> <td>Ø</td> <td>Ø</td> <td>Ø</td> <td>Ø</td> <td>Ø</td> </tr> <tr> <td>Ø</td> <td>Ø</td> <td>Ø</td> <td>Ø</td> <td>Ø</td> <td>Ø</td> </tr> <tr> <td>RE-TURN</td> <td>OUT</td> <td>COM</td> <td>N/O</td> <td>COM</td> <td>N/O</td> </tr> <tr> <td colspan="2">4-20mA</td> <td colspan="2">Relay B</td> <td colspan="2">Relay A</td> </tr> </tbody> </table> <p>• Isolated 4-20 mA output requires +24VDC power supplied from customer device</p>		110/220 VAC		Not Connected		24 VDC		N	L			-	+2V DC	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	RE-TURN	OUT	COM	N/O	COM	N/O	4-20mA		Relay B		Relay A	
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