

_ASERÎÑETER™

High Performance Long Range Laser Level & **Positioning Transmitter**

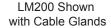
FEATURES

- Range up to 200 ft. / 60 m (level applications) and up to 1312 ft. / 400 m (positioning applications)
- No Beam Divergence = No False Echoes
- Measures any Surface at Any Angle
- Rugged and Robust Enclosure
- Built-in Laser Pointer
- Accepts 110/220 VAC and +24VDC Input Voltages
- Last Pulse Detection for Measurement with Light and Moderate Dust

OPTIONS

- ANSI / DIN Flanges
- Laser Communication Device LCD2)
- Adjustable Mounting Bracket (ADJ4)
- Positioning Reflector (REFL)



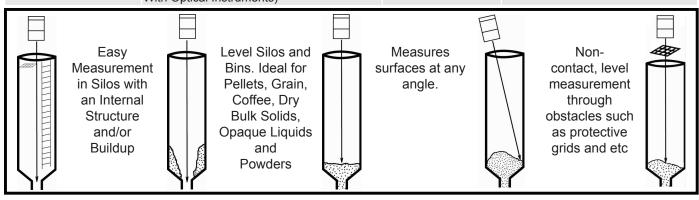




Dust Tubes

SPECIFICATIONS

3FECIFICATION3		Dust Tubes	
Measurement Range		Optical	
Level	Dark color surface - 1.5 ft. / 0.5 m to 100 ft. /	Optical Aperture	4 in. / 100 mm.
Level	30 m - coal, black plastic pellets Light color surface - 1.5 ft. / 0.5 m to 200 ft. /	Laser Beam Diameter	1.97 in. / 50 mm.
Positioning	60 m - plastic pellets, grain Reflective targets - 1.5 ft. / 0.5 m to 1312 ft. / 400 m - rail car, stacker, reclaimer	Receiver Beam Diameter	1.97 in. / 50 mm.
Resolution	0.4 in. / 10 mm.	Beam Divergence	<0.2°
Accuracy	± 1.5 in. / 30 mm.	Environmental	
Update Řate	3 readings / second to 1 reading / 250 seconds	Operating Temperature	-40° to 150°F / -40° to 65°C
Outputs		Pressure	Atmospheric
Analog	4-20 mA, NAMUR Compliant Isolated, Self Powered	Electrical Connection	2x 1/2" FNPT 2x Cable Gland Supplied
Serial	RS232 for Testing, Troubleshooting and	Dimensions	
Switching	Configuration 2 SPST Relays	Diameter	5.25 in. / 135.5 mm.
AC Rating	Max 1A resistive @120VAC and	Length	12 in. / 305 mm.
DC Pating	0.5A@250VAC Max 1A @ 60VDC, 60W	Weight	9.9 lbs. / 4.5 kg.
DC Rating	Max 1A @ 120VAC	Enclosure	Dual Compartment Powder Coated Aluminum
Electric Power	24 VDC (16-32 VDC) 110 VAC (±10% / 50Hz to 60Hz) 220 VAC (±10% / 50Hz to 60Hz)	Enclosure Rating	IP65
		Process Connection	Require minimum opening
Power Consumption			of 4 in / 100 mm and is adaptable
Start Up	Max. 7.5 Watts at 220 VAC		to ANSI Flanges 4" / DIN 100 and higher
Running Normal	0.25 Amp Peak ; 0.15 Amp Continuous	Approvals	FM DIP/II,III/1/EFG/T6=65°C, Type
Laser Safety	Infrared 905nm; Visible Pointer 635nm LM200/SC and LM200/Pxxxx Pointer Continuous Class 3R (IEC 60825) (Avoid direct eye exposure) LM200/SL Pointer used for service only Class 1M (IEC 60825)(Do Not View Directly With Optical Instruments)	FM APPROVED	4X, IP65
		9	Class II, Groups E,F,G; Class III, T6, -40°C ≤ Tamb ≤ +61°C, Type 4X, IP65



ORDERING INFORMATION

LM200/a/b:

/a Unit Options

Standard Unit with Laser Pointer (level applications only) - Pointer used for service only

SC Standard Unit with Laser Pointer—Pointer used continuously

Pxxxx Positioning Unit with Laser Pointer (positioning applications only). Specify the application maximum positioning

range in feet. For example: 200 feet = P0200 (see note below) Pointer used continuously

Note: **For positioning applications only**, the following accessories are mandatory and are required for optimal performance and will be supplied with the positioning laser transmitter: TUB4S Standard Dust Tubes, REFL Reflector, and AD 14 Adjustable Mounting Proceed.

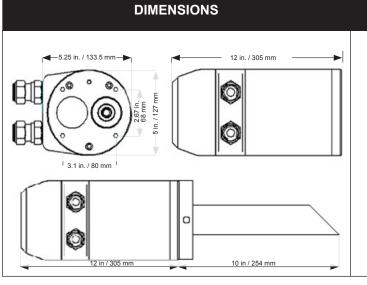
and ADJ4 Adjustable Mounting Bracket.

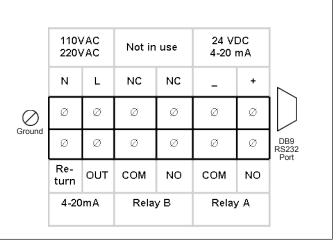
/b Approvals:

FM Factory Mutual CSX Canadian Standards Association

AVAILABLE OPTIONAL ITEMS:			
LCD2	Laser Communication Device for programming and demo purposes. Note: Programming also can be implemented with Desktop PC, Laptop and PDA		
ADJ4	Adjustable Mounting bracket for flexible aiming		
REFL	Reflector 36" X 36" / 1m X 1m—for positioning applications		

REQUIRED MOUNTING ACCESSORIES Select only one:				
TUB4S	Standard 316SS Dust Tubes with (2) built-in purge ports (1/8" FNPT). See DIMENSIONS.			
MP4LM200	304 Stainless Steel Mounting plate with 4" 150# ANSI and DIN100PN10 pattern and integral dust tube (not pressure rated)			
MP6LM200	304 Stainless Steel Mounting plate with 6" 150# ANSI and 150 PN10 bolt pattern and integral dust tube (not pressure rated)			
ANSI		DIN		
ANSI/DIN Flanges are supplied with Standard Dust Tube TUB4S				
FLGLM200S44 4" 150# 304SS RF Flange		FLGLM200S4DN100 DIN100 PN10 304SS RF Flange		
FLGLM200S46 6" 150# 304SS RF Flange		FLGLM200S4DN150 DIN150 PN10 304SS RF Flange		
FLGLM200XXXX Consult factory for availability		For any custom option requiring a different material, flange size, and/or mounting configuration.		





TERMINAL CONNECTIONS

K-TEK 18321 Swamp Road Prairieville, LA 70769 USA Phone: (1) 225-673-5100 Fax: (1) 225-673-2525 Email: sales@ktekcorp.com Website: www.ktekcorp.com



DCN0246 For the latest version of this data sheet, visit ktekcorp.com or kteksolidslevel.com. K-TEK 6100 West by Northwest #140 Houston, TX 77040 USA Phone: (1) 713-462-7665 Fax: (1) 713-762-7684 Email: sales@kteksolidslevel.com

Email: sales@kteksolidslevel.com Website: kteksolidslevel.com