



LDM 600/ 800-232 distance meter *Laser distance meter with RS 232 output*



Features of LDM 600-232 Laser distance meter

- * *Pulsed laser distance meter working from 4 meter to 600 / 800 meter*
- * *Computer output over RS 232 port at up to 200 Hz output rate*
- * *1 meter accuracy against natural reflecting targets (30% R)*
- * *Invisible infra red light and no moving parts*

LDM 600 / 800-232 is a pulsed laser distance meter using the time of flight principle. The laser gives a very short pulse and a counter measure the time for the diffuse reflected light comes back to the detector inside the unit. This is recalculated to distance and the distance value is transmitted over a RS 232 port for communication with external computers etc.

There is an integrated red point sight which can be used for aiming the device to the target area. This works in darkness and full sunshine and is easy to operate.

There is a display which can be used when low repetition rates are used and here operator can see the real value direct on the rear end of the unit. This is very usable when the unit is calibrated.

The integrated microprocessor can be controlled from out side and triggered for controlled firing rate or the system can be set to measure at maximum speed. Special software are available through Laseroptronix. This product is developed mostly by Laseroptronix.

Encapsulation is a plastic enclosure which needs extra encapsulation when used in applications where water may pour over the outer surface.

Pls. see other data sheets of Laseroptronix Products

Many of our products are protected by patents

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LASEROPTRONIX
Svedjevägen 8
186 32 Vallentuna
Sweden
Web site www.laseroptronix.com www.laseroptronix.se

Tel: 46-8-58170064
Fax to office: 46-8-58170061
(30 Km north Stockholm)
Mobile 46-70-7140470 Allan Jansson
E-mail laseropt@algonet.se



Red point aiming system.

There is an integrated aiming system based on a red point sight. This makes it easy to align the invisible infrared beam to the target. Spot diameter corresponds to the diameter of the laser beam.



Model

Distance range to a gray 30% reflective target
 Accuracy in absolute terms
 Measuring speed
 Single shot resolution at 200 Hz
 Averaged resolution at distances less 100 meter
 Pulse counter
 Connection

LDM 600-232

4 meter to 600 meter
 Better than 1 meter
 200 Hz
 +- 1 meter
 +- 10 cm

LDM 800-232

4-800 meter
 Better than 1 meter
 200 Hz
 +- 1 meter
 +- 10 cm

Operating voltage
 Power consumption
 Electrical encapsulation
 Laser safety class
 Beam diameter at exit 20 mm +- 2 mm
 Beam diameter at exit
 Beam diameter at 100 meter in distance
 Beam divergence about
 Wavelength
 Laser source
 Pulse length
 Peak power in the short pulse
 Weight
 Dimensions

Counts first pulse over a preset trig level
 1 meter long cable and D-Sub at end for RS 232 and red/black for power.
 5-6 Volt DC well regulated
 150 mA at full 200 Hz repetition rate
 IP 44 in macrolon plastic.
 Class 1 equal to harmless for the eyes

25 mm	25 mm
300 mm	300 mm
2.5-3 mRad	2.5-3 mRad
905 nm in near IR,	
Laser diode based transmitter.	
6 nano sec	6 nano sec
Max 20 W	Max 20 W
About 200 gram with plastic casing	
128x100x42 mm	

About LDM distance meters with RS 232 output

Laseroptronix is happy to deliver this system based on a modified and improved LDM 600 / LDM 800 hand held system. Inside we have done larger modifications and improvements to get a computer interface. This system is very useable to many different applications and has an attractive price level. For computer interfacing we have no special software but has tested with following standard softwares. Standard terminal software for RS 232, Matlab software for smart graphics and calculations and Excel where a RS 232 is imported into a spread sheet display software.

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