

# Laseroptronix LDM-Series

(Laser distance meters)



Laseroptronix LDM-Series includes the LDM-600 and LDM-800 meters  
(The difference between them is maximum range to target)

### Technical specification:

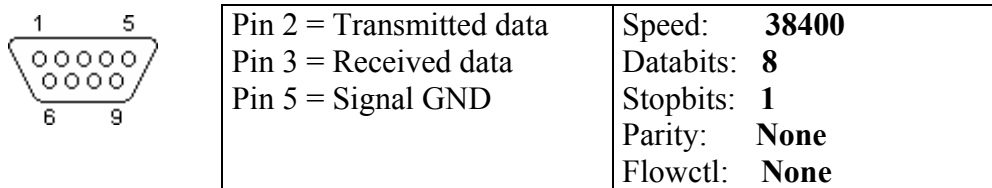
- Pulsed 904 nm laser with safety class 1 = harmless
- Rugged plastic enclosure in macrolone
- Rubber coated surfaces for firm hand contact
- Delivered with textile bad and belt clips
- Internal redpoint aim
- 3 digits LCD display with 1 m resolution between 100 m to 999 m  
Under 99 m distance display shows 0,1 m resolution
- Feet, yard and meter can be selected by operator
- Range over 600(LDM-600) 800(LDM-800) meters to a dark gray target.
- Rs-232 (9pin D-Sub) data output
- Power supply 12v DC
- Power consumption 170mA at 12v DC (2w)

### The meter can be delivered with two different operating modes:

- Continuous data output at 200hz
- External signal triggers the meter and data of 8 measurements (16bytes) is sent out

# LDM - RS-232 Serial data protocol

## Connection diagram:



## Data output:

When power is applied the meter will send out ASCII char **A** dec(**65**) to tell you that it is alive and communication is correct.

Distance is presented as a 12bit value and sent out in the following sequence:

The first 4 bits is sent in the first byte:                      Byte0: **00001010** (MSB)  
The next 8 bits is sent in the second byte:                    Byte1: **10101010** (LSB)

**Complete 12bit value: 1010 1010 1010                      dec ( 2730 )**

## Note:

You can't convert raw distance values directly to (meters / yards / feet) you have to measure some known\* distance points and get your own recalculate formula as the rs-232 values aren't totally linear.

The values presented on the backside LCD are calibrated values.

**Free raw - terminal software for windows can be found at:**

<http://brav.velenje.cx/avr/terminal/>

\*At least 3 points 10 meters from each other