



## Overview

EDM produces photoelectric direct-reading remote-transmitting water meter is a measuring device used to measure the total water volume of the water flowing through the pipeline. It is applicable for small-scale industrial water and household water. This water meter features by large measurement range and high precision. Its measuring properties and other functions are able to meet with the Level-2 accuracy standard and ISO4064 international standard.

LXSG series photoelectric direct-reading remote-transmitting water meter reads the print-wheel data using the photoelectric direct-reading technology. Compared to traditional pulse meter, its metering error is reduced to zero. It is also an electronic remote-transmitting water meter that achieves zero electro-mechanical transformation error in the automatic meter reading system. Adopting a low-power-consumption design, apart from meter reading and valve operation, otherwise it requires no power supply.

## Features

- Magnetic shield, for external magnetic field protection
- Sealed dry register ensures long time clear reading.
- 4 digit counters and 4 pointers for high accuracy measurement readout
- ISO4064 Class B, Accuracy: R=80
- Communication: RS485, Support Modbus-RTU Protocol; Modbus ID programmable
- Horizontal and Easy Installation
- Light Weight & Good Reliability

## Dimensions

DN (mm)	15	20	25	32	40
Size (inch)	1/2"	3/4"	1"	1-1/4"	1-1/2"
Length (L)	165	195	225	230	245
Width (W)	99	99	104	104	125
Height (H)	115	115	120	120	160
Connecting Thread D	G3/4B	G1B	G11/4B	G11/2B	G2B

## Wiring

RS485 Output:

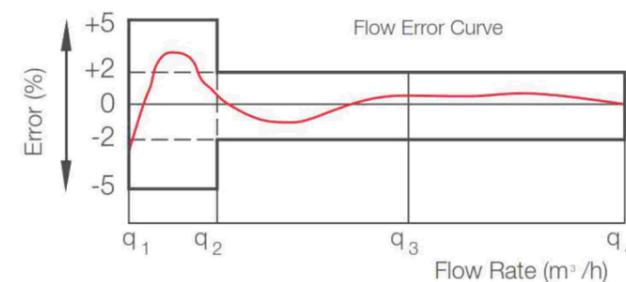
Red	Black	Yellow	Blue
12VDC+	12VDC-	485A	485B



## Parameters

Nominal diameter (mm)	DN15	DN20	DN25	DN32	DN40
Overload flow $Q_4$ (m <sup>3</sup> /h)	3.125	5.0	7.875	12.5	20.0
Normal flow $Q_3$ (m <sup>3</sup> /h)	2.5	4	6.3	10	16
Divide flow $Q_2$ (m <sup>3</sup> /h)	0.05	0.08	0.126	0.2	0.32
Min flow $Q_1$ (m <sup>3</sup> /h)	0.03125	0.05	0.07875	0.125	0.2
$R Q_3 / Q_1$	80				
$Q_2 / Q_1$	4				
Maximum reading(m <sup>3</sup> )	99 999.9999				
Minimum reading(m <sup>3</sup> )	0.00001				
Accuracy level	Class 2				
Allowed working pressure (Mpa)	≤ 1.6MPa				
Water Temperature	0.1°C ~ +45°C				
Humidity	0 ~ 95%RH				
Temperature class	T30 / T50				
Pressure Level	MAP10				
Pressure Loss Level	ΔP63				
Climate and mechanical	Level B				
Electromagnetic	Level E1; unmeasurable reverse flow				
Shell material	Cast Iron				
Installation mode	Horizontal installation				

## Maximum Permissible Error:



Low Zone ( $Q_1 \leq Q \leq Q_2$ ) Max. Permissible Error  $\pm 5\%$   
High Zone ( $Q_2 \leq Q \leq Q_4$ ) Max. Permissible Error  $\pm 2\%$