

Water Flow Meter - FLOW-01 and Pulse Divider Module - PDI001



WHAT IS A WATER FLOW METER?

A water flow meter is a sensor used to determine the amount of water that has passed through the meter.

HOW IT WORKS

The meter uses an internal turbine that spins as the water moves through the device. There is a hall-effect sensor that detects every revolution of the turbine, and provides a pulse output for every revolution.

Obviously it does not take a lot of flow to produce one revolution, so the sensor tends to provide MANY pulses per second, which is way too quick for the GSM Commander to handle, and way too many to have real measurement relevance.

This is why the Pulse Divider Module (PDI001) is compulsory when used with a GSM Commander. The Pulse divider will count incoming pulses from the sensor and produce a single output pulse for every liter that passes through the sensor.

The connected GSM Commander (GC0641 or GC1281) can now easily keep track of how many liters has flowed.

APPLICATIONS / BENEFITS

- * Totalize flow for billing or maintenance purposes
- * Prevent a pump from running dry
- * Measure flow rates

PLEASE NOTE

It is highly recommended that a strainer or filter be fitted in the pipe BEFORE the sensor, to prevent debris from fouling the internal turbine. Also keep in mind that because of the working principles, measurement at low flow rates will have lower accuracy.

Specifications

Weight:	100 grams
Dimensions:	74 x 43 x 42mm
Internal Diameter:	20mm / 0.81"
External Diameter:	25,4mm / 1"
Working Pressure:	<10 Bar
Flow Range:	1-60 Liters / Min
Pulse Length:	>150ms (when using PDI001 – Pulse Divider Interface Board)
Ratio:	1 Pulse = 1 Liter
Material:	Black ABS Plastic
Operating Temperature:	2°C to 80°C
Operating Humidity:	35% - 90% RH
Voltage Range:	4.5 – 18VDC
Maximum Current:	15mA @ 5VDC