

FLOWRATE MEASUREMENT SYSTEM

I&C Italia offers flowrate monitoring systems suitable for open channels, rivers and streams.

The benefits of the system are: versatility, low power consumption (ideal for long-term monitoring) and real-time data transmission.



Key components of the system are sensors, dataloggers (equipped with solar panel and backup battery) and communications devices (GSM/GPRS modem).

The system can be supplied with two different type of sensors:

- **ultrasonic sensor** (operates by transmitting a series of ultrasonic sound waves in a cone shaped pattern and measuring sound waves reflected back from the target)
- **water level sensor** (vented pressure transducer)

The data acquisition system can collect measurements automatically to provide real-time monitoring of flowrate. Data can be displayed on a secure weblink (our "web monitoring on-line") where they can be viewed and downloaded.

The datalogger is housed in a pole mounting plastic enclosure together with a solar panel. The vertical mounting pole can be anchored in the ground or to a concrete structure.



INSTRUMENTATION - TECHNICAL SPECIFICATIONS
ULTRASONIC SENSOR

Product Code *P43ULTRA6000*
WATER LEVEL SENSOR

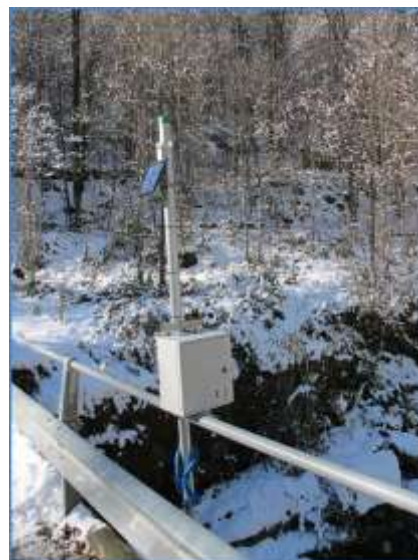
Product Code *PZ100R420MA0 (100 kPa)*
Product Code *PZ200R420MA0 (200 kPa)*

<i>Measurement range</i>	<i>600-6000 mm</i>	<i>100-200 kPa</i>
<i>Accuracy</i>	<i>< 0.5% F.S.</i>	<i>0.3% F.S.</i>
<i>Repeatability</i>	<i>± 0.2% F.S.</i>	
<i>Over range pressure</i>		<i>150% F.S.</i>
<i>Beam Angle</i>	<i>8°</i>	
<i>Output signal</i>	<i>4-20 mA</i>	<i>4-20 mA</i>
<i>Voltage supply</i>	<i>15-30 Vdc <35 mA</i>	<i>13-24 Vdc</i>
<i>Operating temperature</i>	<i>-15°C to +70°C</i>	<i>0°C to +70°C</i>
<i>Body material</i>	<i>Aluminium and plastic material IP65</i>	<i>Steel</i>
<i>Outer diameter</i>		<i>21 mm</i>
<i>Supplied with mounting bracket</i>		

DATA TRANSMISSION - TECHNICAL SPECIFICATIONS
DATALOGGER

Product Code *UAD0200TX000*
Product Code *UAD200GPRS00 (with GSM/GPRS modem)*

<i>Analog inputs</i>	<i>2 + battery</i>
<i>A/D Resolution</i>	<i>12 bit</i>
<i>Input Voltage Range</i>	<i>12-15 Vdc, 100 mA</i>
<i>Memory</i>	<i>EEPROM 64 kbytes</i>
<i>System power</i>	<i>Solar panel 2-5W Rechargeable batteries or 6V dc batteries</i>
<i>Operating temperature</i>	<i>- 20°C to +55°C</i>
<i>Enclosure</i>	<i>IP65</i>
<i>Supplied with dedicated software and RS232 cable</i>	


Datalogger equipped with solar panel

Product specifications described herein are subject to change without notification.

Ingegneria & Controlli Italia S.r.l.

Sede legale

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