

# Water level Datalogger for wells (Pumping test)

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## Applications

The Water level Datalogger is used for automatic measurements of the levels of groundwater in the wells or in stand-pipe piezometers during the execution of pumping tests, generically defined as flow tests for the determination of hydrogeological parameters of soils.

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## Technical features

The Water level Datalogger is composed of a level transducer connected to an electric cable inextensible, mounted on a reel cable holder, fitted with a carrying handle, a knob for winding of the cable and a locking screw of the drum. Inside the drum on one side are housed in 2-channel datalogger and the batteries power 6V and a LED.

## Installation

The flow tests and pumping tests are generally carried out at a constant flow rate or at intervals (usually when the test is conducted in a single well). Inside each tubing (both the active well is the control piezometers) is inserted a water level Datalogger for the measurements.

The water level Datalogger allows the reading and storing of data in automatic mode in addition to the real-time display on the PC of the trend of the test.

The water flow is instead measured by a flow meter located upstream of the pump installed in the pumping well, connected to the same Datalogger (on request).


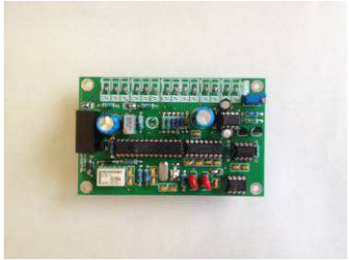
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## Technical specifications

Code	OPIER4XXXXX	Code	OD0200C0002
			
<b>Description</b>	Water level	<b>Description</b>	2 Channels Datalogger
<b>Type of measure</b>	Level	<b>Channel</b>	Up to 2 + battery voltage
<b>Type of sensor</b>	Relativo Mems	<b>Risolution</b>	12 bit, 4096 points (0.005mA o 0.5 mV) RTC internal
<b>Range</b>	1-2-5-10-20-50-100 m H2O	<b>Thermal stability</b>	< 30 ppm
<b>Sensitivity</b>	0.01% del F.S.	<b>Sensors power supply</b>	12-15 Vcc. 100 mA
<b>Accuracy</b>	0.3% del F.S.	<b>Inputs</b>	4-20 mA, 0-2.048 V, Potentiometers direct
<b>Overload</b>	150%	<b>Power supply</b>	Rechargeable battery gel-cell type 6V 12Ah or 4 alkaline battery size C mini-solar panels (optional)
<b>Output signal</b>	4-20 mA	<b>Memory</b>	EEPROM 64 Kbyte circular memory no volatile
<b>Temperature oper. range</b>	Da -10°C a +70°C	<b>Data recording</b>	7500 complete acquisitions for each input
<b>Long term stability</b>	0.02% F.S. (1 year)	<b>Stand-by power consumption</b>	< 90 microApère
<b>Diameter</b>	22 mm	<b>Box</b>	reel cable holder IP 65
<b>Length</b>	190 mm	<b>Multiplexer</b>	Solid state
<b>Material</b>	Stainless steel	<b>Temperature oper. range</b>	from -20°C to +55°C
<b>Weight</b>	0,25 Kg	<b>Weight</b>	~ 5 Kg with 50 m cables
<b>Filter pore size (*)</b>	40 micron	<b>Opzioni:</b>	GSM/GPRS modem for transmission to any FTP server

### Cables

Code OCABLE00002 2x2x0.35 + Vented cable