

Romania[®]

Water Let's save *Blue* & *Green*

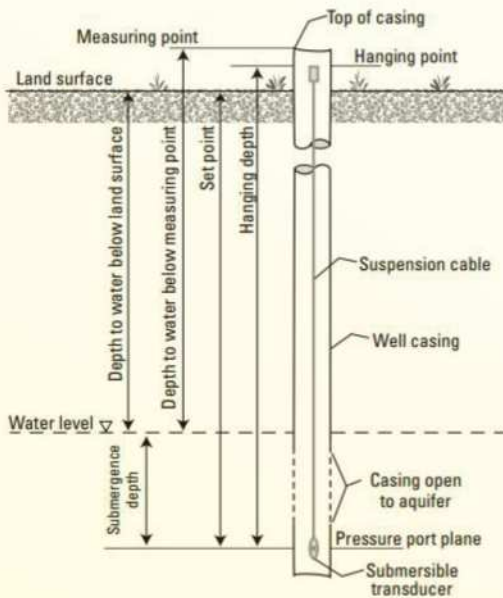


Ground Level Water Recorder

The purpose of this manual is to provide basic operating knowledge of the components of the automated recorder used for periodic water level measurement. Much more than just a supplement to the broader water level program, these automated recorders provide a means to India that cannot be discerned from annual level readings. The design of document day-to-day changes and seasonal patterns in the aquifers of these units also allows for remote satellite transmission of collected data, so that aside from installation and occasional maintenance, no additional work is required to obtain these measurements. This manual will primarily discuss the 3 major technical components of the automated recorder— the sensors, logging system & transmitters— for automated water level monitoring.

RWPE itself is an OEM. The series of Piezometer is suitable for measurement of different mediums like liquid or gas pressure, even for difficult media such as contaminated water, stream and mild corrosive fluids.

SENSOR AND IT'S WORKING



This type of sensor is lowered into the well on a reinforced cable and submerged below the water. Once in place, the initial water pressure reading is synced with the current water level. The unit then monitors the water pressure for changes, and the pressure difference is converted to a change in water level. The entire unit is hermetically sealed to prevent any moisture from getting into the instruments circuitry.

FEATURES:

- Heavy industrial pressure sensor.
- 10 V/m EMI protection according to HSE.
- Reverse polarity protection on input.
- Continuous data logging system using USB.
- Short circuit protection on output.
- $\pm 0.25\%$ accuracy of the final output.
- $\pm 1.0\%$ total error band.
- Compactly designed integration for making more sophisticated handling.
- Working temperature – Console: $-20 - 70^\circ\text{C}$; sensor : -40 to 105°C .

Range (Psi)

0 to 050

0 to 100

0 to 200

0 to 300

0 to 500

Range (Bar)

0 to 3.5

0 to 007

0 to 014

0 to 020

0 to 035

APPLICATIONS:

- Industrial water level monitoring.
- Agriculture bores.
- Ground water elevations.
- Wells

TECHNICAL SPECIFICATION

PARAMETERS	MIN	MAX	UNITS	NOTES
Accuracy (combined non linearity, hysteresis, and repeatability)	-0.25	0.25	%F.S.	BFSL
Isolation, Body to any Lead	100	MΩ	500VDC	
Dielectric Strength	2mA		500VAC	1min
Long Term Stability (1 year)	-0.25	0.25	%F.S.	
Compensated Temperature	-20	+85°C		
Operating Temperature	-40	+120		Except cable 105°C max
Storage Temperature	-40	+125°C		Except cable 105°C max
Current Consumption	5mA			Voltage Output
Wetted Material	17-4PH 316L Stainless Steel Port, 316L Stainless Steel Snubber			
Vibration	$\pm 20g$, MIL-STD-810C, Procedure 514.2, Fig 514.2-2, Curve L			

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