

PIEZOMETERS

Piezometers are designed to measure fluid pressures such as ground water elevations and pore water pressures. They can be placed in boreholes, observation wells or embedded into the ground.

I&C Italia offers two different types:

- *ELECTRICAL (VENTED AND STANDARD)*
- *VIBRATING WIRE (STANDARD)
(long-term monitoring)*



The piezometer consists of a steel cylindrical housing where the pressure transducer is housed with a porous filter. Water pressure deflects a diaphragm inside a sealed metal chamber. The sensor converts water pressure to a signal through the diaphragm. VW piezometers are equipped with a temperature sensor.

Electrical Piezometers




- Monitoring ground water elevations
- Monitoring pore water pressure in cohesive soils

Vibrating Wire Piezometers

- Monitoring pore pressures or uplift pressures



TECHNICAL SPECIFICATIONS

	VENTED Electrical Piezometer	STANDARD Electrical Piezometer	VIBRATING WIRE Piezometer
			
Product code	PZ100R420MA0 (100 kPa) PZ200R420MA0 (200 kPa)	PZ200A420MA0 (200 kPa) PZ500A420MA0 (500 kPa)	PZ350VW00000 (350 kPa) PZ700VW00000 (700 kPa)
Measurement range	100-200 kPa	200-500 kPa	350-500-700 kPa
Accuracy	0.3% F.S.	0.3% F.S.	0.3% F.S.
Over range pressure	150% F.S.	150% F.S.	150% F.S.
Output signal	4-20 mA	4-20 mA	Hz
Excitation voltage	13-24 Vdc	13-24 Vdc	Swept frequency
Operating temperature	0 to +70°C	0 to +70°C	0 to +70°C
Body material	Steel	Steel	Steel
Outside diameter	21 mm	21 mm	19 mm
Thermistor	-	-	NTC 3K

The piezometer can be supply with cable length required.

ACCESSORIES



Read out unit
(4-20 mA)

C180LCD00000



Monitoring tester

C18MT000000

YEC202VW000

2 twisted pair cable 0.25 mm²

YEC202035000

2 twisted pair cable 0.35 mm²

YEC203035K00

2 twisted pair cable + vent tube 0.35 mm²

WATER LEVEL LOGGER



PZ200MINILOG

Compensated for barometric pressure

Measurement range: 200 kPa

Accuracy 0.3% F.S.

Diameter: 22 mm

Data acquisition system

Channels: 2

Memory: 64 kByte

Voltage supply: 9 Vdc

Autonomy: 6 months - 2 years

Material: stainless steel AISI316.

YECSERMINILO

RS232 cable

YEC104022000

Electrical shielded signal cable
4x0.22, with vent tube and
PVC sheath.

Product specifications described herein are subject to change without notification.

Ingegneria & Controlli Italia S.r.l.

Sede legale
Sedi operative

- TORINO - Via Donati, 14
- TORINO
Interporto Sito km 20+500 Tang. Sud - Prima Strada, 5 - 10043 Orbassano - Tel. 011 3975311 - Fax 011 3493790
- BERGAMO
Via Gramsci, 5 - 24042 Capriate San Gervasio - Tel. 02 92864185 - Fax 02 92864187
- TERAMO
Viale Crispi, 17 - 64100 Teramo - Tel. 0861 411432 - Fax 0861 411442
- ROMA
Via Piave, 15 - 00187 Roma - Tel. 345 53 85 753