



Description

The electric piezometer model LV610 measure pressures, interstitial overpressures and water levels in wells, dams, channels and tanks. The LV610 series is produces in two models:

- LV610-AS, absolute pressure piezometer, is able to measure interstitial ground pressures; equipped with copper shielded cable 4X0.22, outer sheath marine grade.
- LV610-RL, relative pressure piezometer, is able to measure hydrostatic pressures, equipped with vented cable 4X0.22 copper shielded, outer sheath marine grade

The electric piezometer, inserted in a well, will give a directly proportional signal to the water level. The electric cable, fixed to the piezometer body, can be used for lowering the sensor as well as for recovering it. Inside the vented cable a tube connects the transducer with the atmosphere, allowing automatic barometric compensation.

The sensor consist of a piezoelectric element applied on a flexible metallic membrane, which can translate the pressure to a directly proportional electric signal.

The electric piezometer connection cable is provided with the required length.

The signal can be read with a manual read out unit as DATAVIEW or automatically with a data logger such as MINILOG, MYLOG, NATUN system or any other data logger provided by SIM STRUMENTI. Every sensor is provided with a calibration certificate attesting the results of the test performed and its electromechanical features.

Applications

Water level measurement, interstitial pressure measurement.

Water level measurement

Interstitial pressure measure

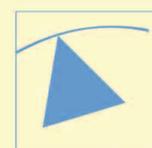
Vented cable

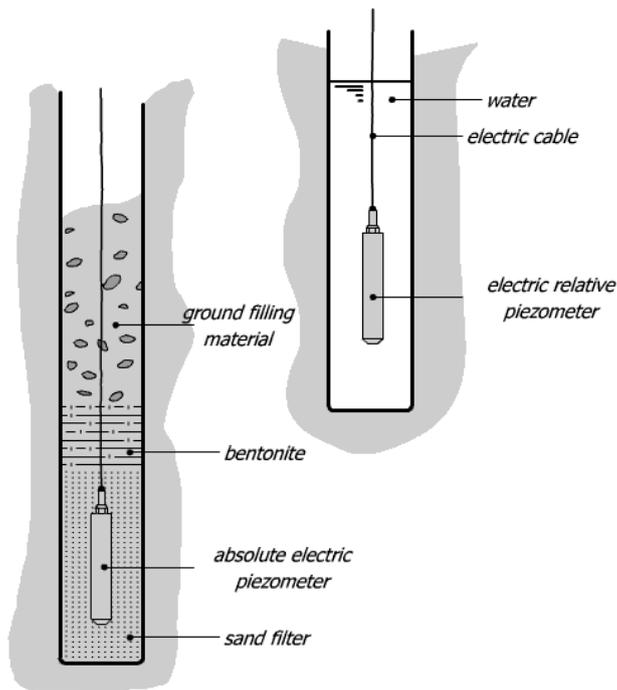
Data logger (optional)

Marine grade (optional)

Temperature sensor (optional)

Fully encapsulated in rugged stainless steel housing





Technical features

Model	<i>LV 610-AS-FS*</i>	<i>LV 610-RL-FS*</i>
Type	Piezoelectric	
Range available	From 0.05 to 1.0 bar every 0.05bar From 1 to 10 bar every 0.5 bar	
Overpressure	150 % F.S.	
Supply	8 ÷ 28Vcc	
Output	4-20mA	
Linearity	0.25% FS	
Max. thermal error	< 0,04% / °C	
Long term precision	<0,2% F.S. (1 anno)	
Insulation	>100MΩ	
Operating Temperature.	-25 ÷ +100 °C	
Protection	IP68	
Material	Stainless Steel	
Dimension (mm)	Ø 25 x 145mm**	
Weight	0.325 Kg	
Accessories & spare parts		
Cap with filter (porous stone)	<i>LV610-AX-FT01</i>	
Ballast	<i>LV610-AX-WT01</i>	
Cable holder	<i>LV610-AX-CBL1</i>	
90° Cable holder	<i>LV610-AX-CBL2</i>	
Junction box with filter	<i>LV610-AX-SCFI</i>	

***FS** - Please specify range when you order

****** - On request available Ø 22

SIM STRUMENTI SNC reserves the right to make any kind of design or functional modification without prior notice



SIM STRUMENTI SNC
Via Merendi 42
20010 Cornaredo (MI) - ITALY
Tel .: +39 02 97003039
Fax : +39 02 97290167
www.simstrumenti.com
sim@simstrumenti.com



SIM

Strumenti e sistemi
per la geotecnica
per il controllo
di strutture e la
salvaguardia
dell'ambiente