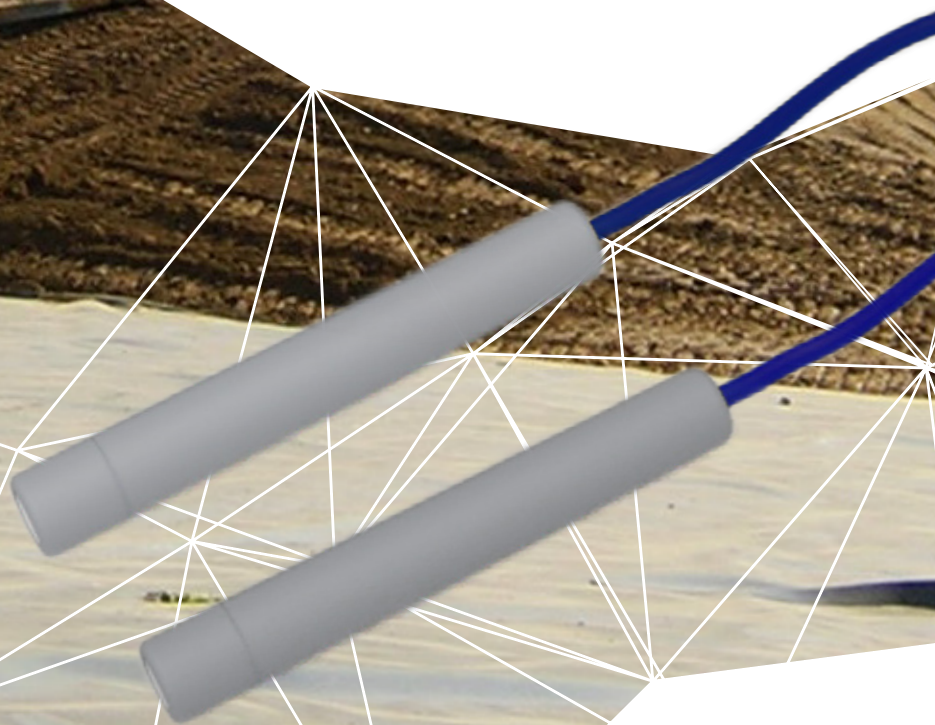
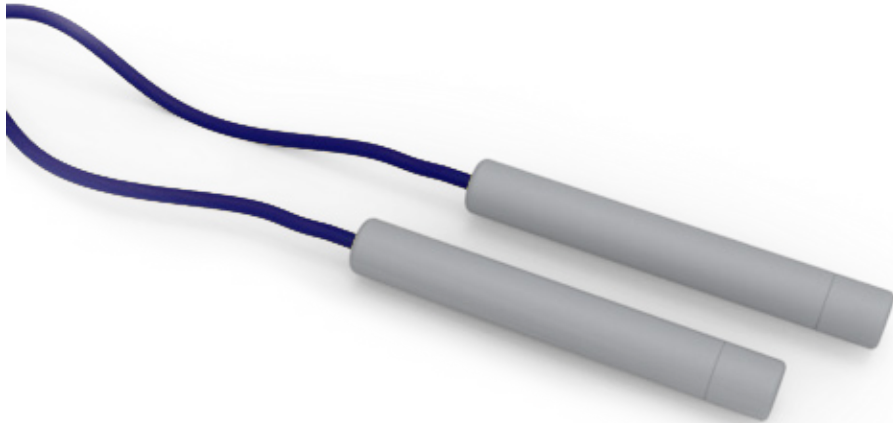


P235TI

— TITANIUM PIEZOMETERS

PIEZOMETERS





TITANIUM PIEZOMETERS

Piezo-resistive titanium piezometers are designed to operate in corrosive environments, such as salt water, tailings, and landfills.

Resistance to corrosion is provided by a titanium body, ceramic diaphragm, polyethelene or ceramic filter, and acid-resistant signal cable.

The robust 4-20mA output is compatible with most readouts and data loggers and is suitable for dynamic readings.

APPLICATIONS

- Monitoring pore-water pressure under landfills
- Monitoring where brackish water or salt water is present
- Monitoring nuclear waste repositories
- Monitoring pore pressures in tailings

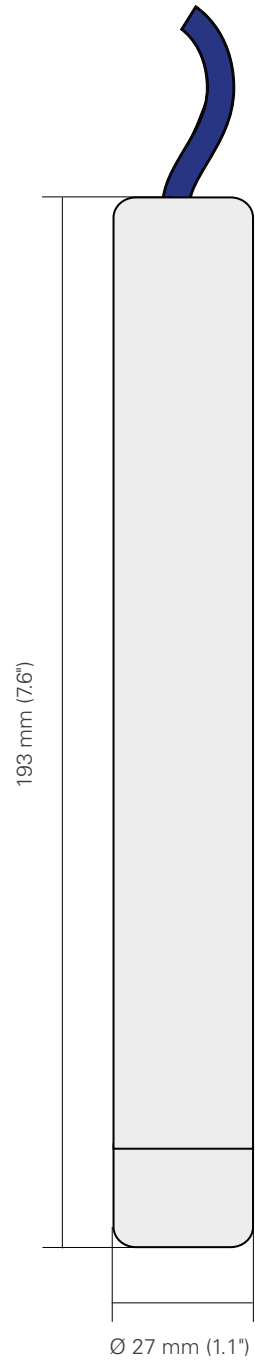
FEATURES

- Corrosion-proof up to pH=1
- High accuracy and stability
- Compatible with most readouts and data loggers
- Built-in thermistor (on request)
- Suitable for dynamic measurements

 *Meet the essential requirements of the EMC Directive 2014/30/UE*

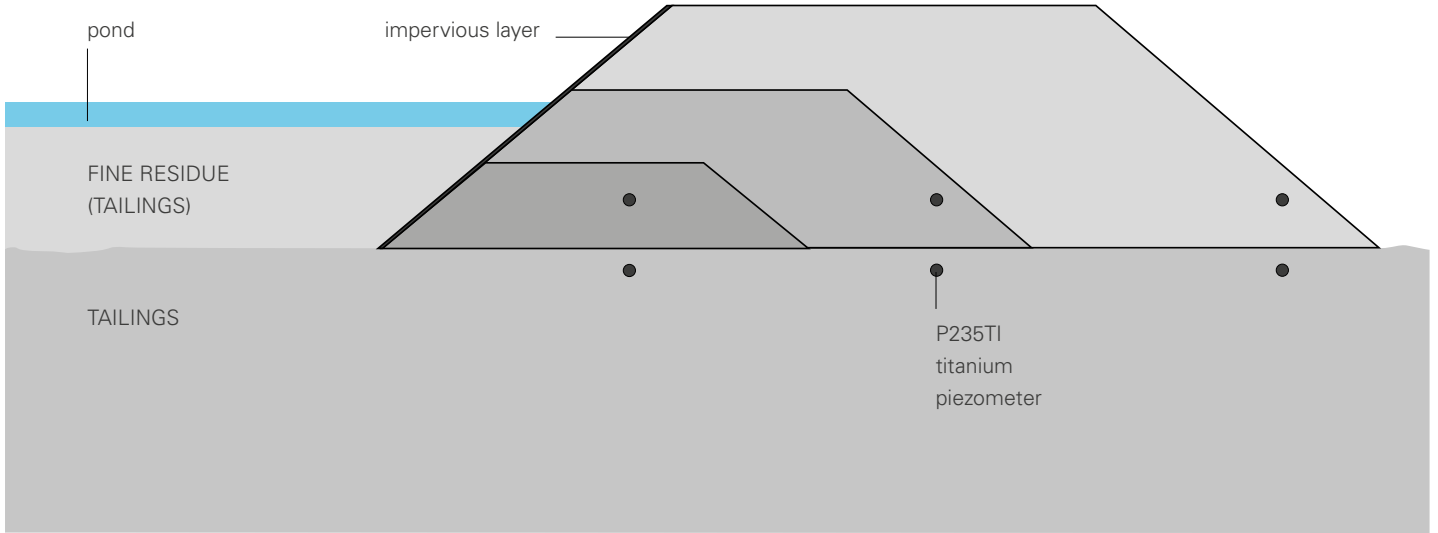
TECHNICAL SPECIFICATIONS

MODEL	0P235TI	
Description	Titanium piezometer with piezo-resistive sensor	
Available full scales (FS)	200 kPa, 500 kPa, 1.0 MPa, 2.0 MPa (29 psi, 72.5 psi, 145 psi, 290 psi)	
Overpressure	1.3 x FS (for 200 kPa FS) 2 x FS (all other FS)	
Sensitivity	0.01% FS	
Linearity ⁽¹⁾	< ±0.25% FS	
Total Accuracy ⁽²⁾	< ±0.20% FS (for 200 kPa FS) < ±0.15% FS (all other FS)	
Signal output	4 - 20 mA current loop	
Electric supply	12 - 24 V DC	
Thermic zero shift	0.00025 % FS /°C	
Electric insulation	4 KV	
Temp. operating range	-20 to +80 °C	
Temperature sensor	built-in thermistor on request	
Body material	titanium	
Dimensions	Ø 27 mm (1.1", length 193 mm (7.6"))	
Weight	0.5 kg (1.1 lbs)	
Corrosion resistance ⁽³⁾	up to pH=1 @ 20°C	
FILTER UNIT		
Type	LAE filter	HAE filter
Material	synthesized PE (Vyon ®)	ceramic
Pore size	40 µm	0.25 µm
SIGNAL CABLE		
OWE104PH100	4-wire cable with LSZH jacket, suitable for acid environment up to PH=1 @ 20°C	
Max cable length to logger ⁽⁴⁾	1000 m (for more information see FAQ#77)	

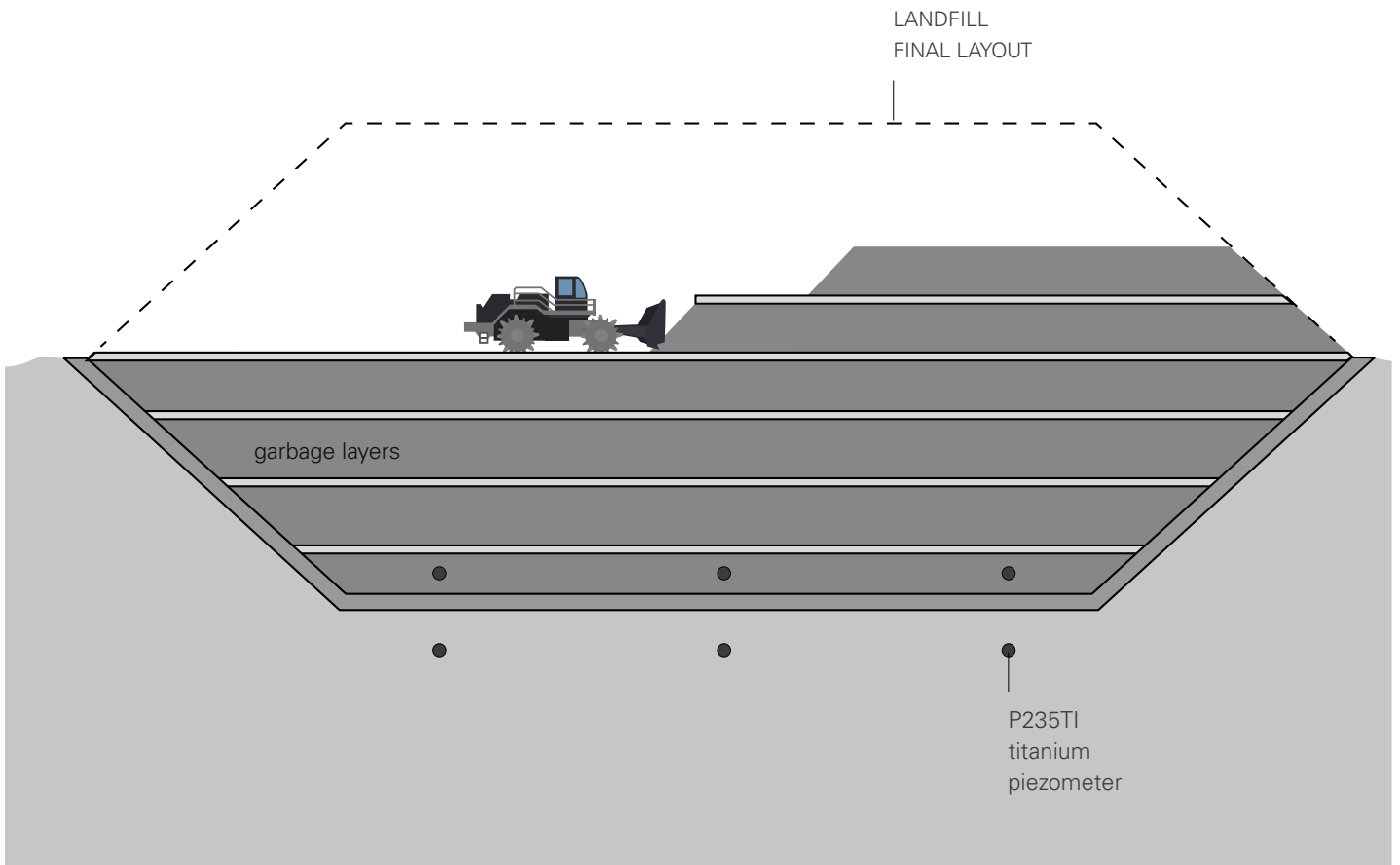


(1) including hysteresis
 (2) including linearity, hysteresis and repeatability, calculated with 3rd degree polynomial
 (3) Sisgeo's tests have verified that titanium piezometers do not have functionality or corrosion problems after one year in a solution with pH = 1 and temperature 20 °C.
 (4) refer to FAQ section of Sisgeo website: www.sisgeo.com/faq

APPLICATION IN TAILING DAMS



APPLICATION IN LANDFILLS



ACCESSORIES AND SPARE PARTS

PROTECTIVE PIEZOMETER CAP OP100CH1000

Protective cap for standpipe piezometers with data plate and survey pin.



FILTER SATURATION DEVICE OPF01SAT000

Stainless steel pump for saturating HAE ceramic filters. Includes pump, 10 bar pressure gauge, and a threaded connection for the filters.



HAE CERAMIC FILTER OPF01D16000

Spare HAE ceramic filter for P235 piezometers, pore size 0.25µm.

LAE VYON FILTER OPF40D2000P

Spare LAE Vyon® (synthesized polyethylene) filter for P235 piezometers, pore size 40/50µm.

SINGLE INSTRUMENT OVP JB OEPDP002W00

IP67 plastic box with 3-level OVP Over Voltage Protection board for the connection of a 2-wire instrument. Note that OVP requires connection to an adequate earth ground.

OVP JUNCTION BOX OEPDP000W00

IP67 plastic box with 3-level OVP Over Voltage Protection boards for the connection of up to 15 instruments. Note that OVP requires connection to an adequate earth ground.

TERMINAL BOX OEPM0000000

Terminal boxes provide termination and connectors for 1, 2, or 3 instruments. Used with portable readout. Includes IP67 plastic box, cable glands, and 7-pin military connectors.

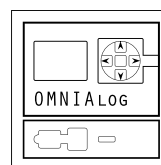
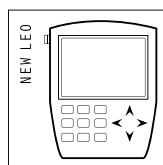
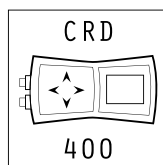
BENTONITE PELLETS 1000BE20025K

10 mm bentonite pellets supplied in 25 kg bag.

CABLE SPLICING KIT OEGSM0K0000

Splice kit for lengthening or repairing cable.

READABLE BY



Refer to separate datasheets for further information.

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TECHNICAL ASSISTANCE

SISGEO offers customers e-mail and phone assistance to ensure proper use of instruments and readout and to maximize performance of the system.

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