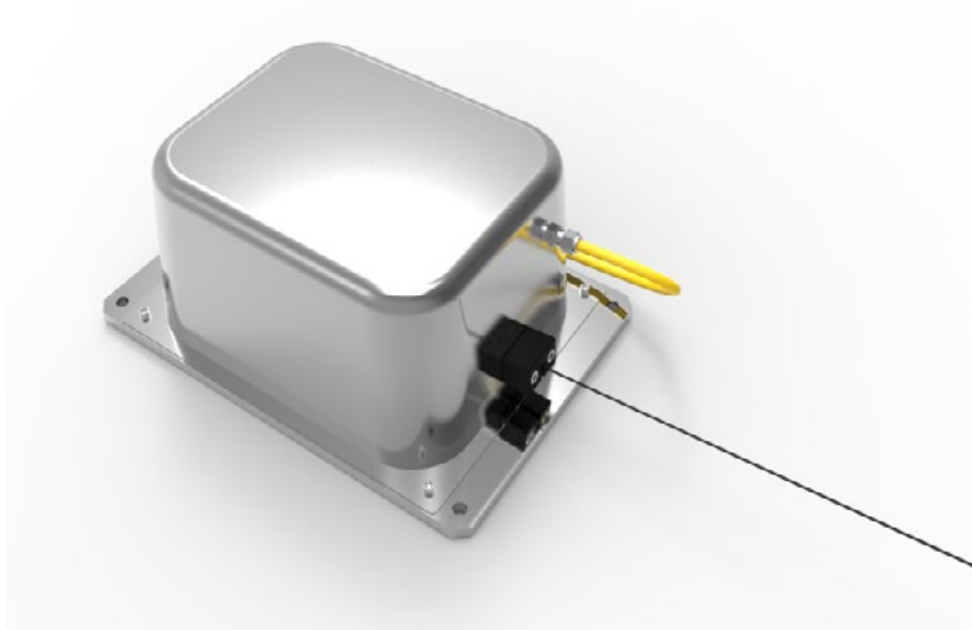


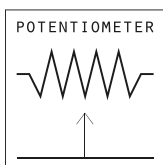
D241

— WIRE
CRACKMETER

EXTENSOMETERS
& JOINTMETERS



WIRE CRACKMETER



The wire crackmeter, also known as a wire extensometer, is designed to monitor the changes in the distance between two anchor points located up to 30 m apart.

The wire crackmeter consists of a transducer, an opposing anchor, and a wire that runs between the transducer and the opposing anchor. The transducer is housed in a stainless steel enclosure and supplied with a mounting plate. The opposing anchor is an eyebolt expansion bolt. The wire is stainless steel and supplied with clip.

APPLICATIONS

- monitoring large displacements associated with landslides
- monitoring rockfalls and topple landslides
- monitoring surface faults associated with settlements or horizontal displacements

FEATURES

- Large measurement range, up to 2000 mm (6.5')
- rugged enclosure designed for harsh conditions
- wire can be extended to span a distance of 30m

CE Meets the essential requirements of the EMC Directive 2004/108/EC

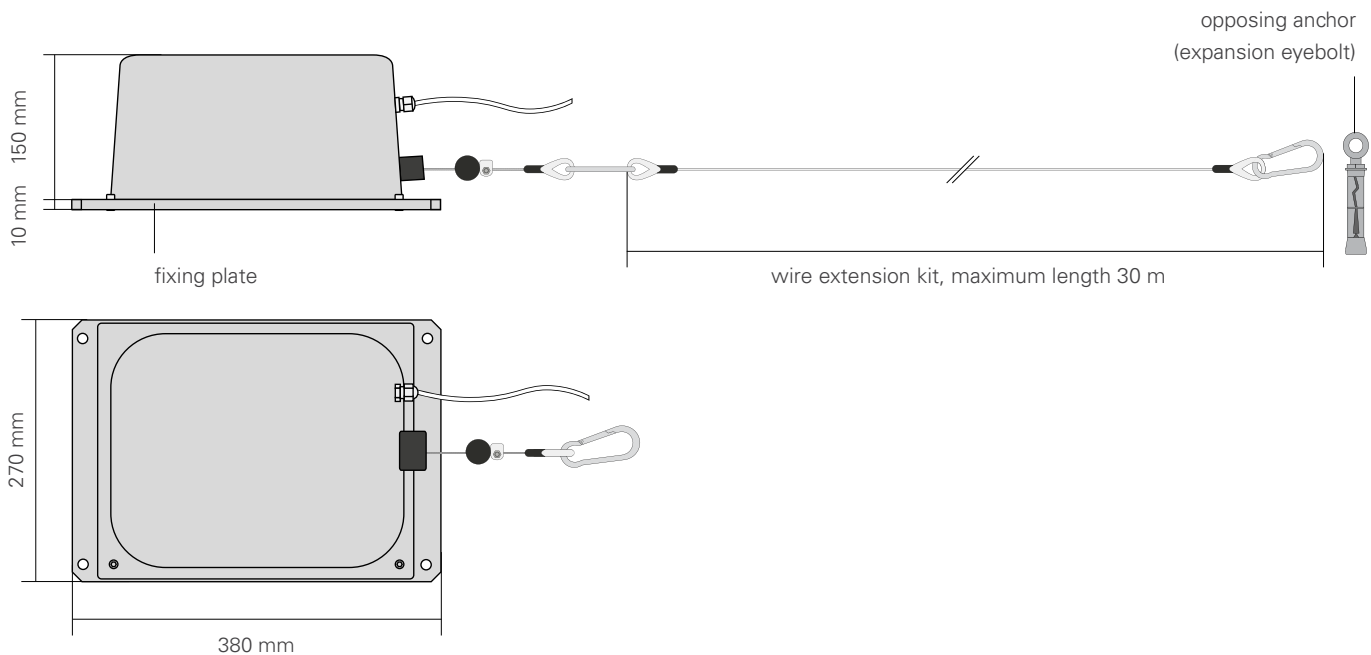
TECHNICAL SPECIFICATIONS

| | |
|--|--|
| PRODUCT CODE | 0D241A20000 |
| Technology | rotative potentiometer and thermistor |
| Mechanical range | 2000 mm (6.5') |
| Electrical range | 240 mm (9.5") per complete rotation ⁽¹⁾ |
| Sensitivity | 0.03 mm |
| Accuracy | ± 1 mm (depends mainly on the thermal effect on the steel wire) |
| Repeatability | ± 0.03 mm |
| Signal output | 4-20 mA (current loop) for displacement, resistance for thermistor |
| Power supply | 12-24 V DC |
| Wire | stainless steel, Ø 2 mm |
| Maximum wire tension | 8 kg |
| Maximum wire length | up to 30 m with wire extension kit (distance between transducer and anchor target) |
| Operating temperature | -20°C +60°C |
| Housing size and protection | 380 x 270 x 160 mm (15 x 11 x 6.5"), IP65 |
| Anchors | No. 4 SL M 8 expansion bolts (Ø 14 mm) for transducer housing No.1 SL M 8 expansion eyebolt (Ø 14 mm) for opposing anchor |
| Material | stainless steel |
| Signal cable | 0WE104K00ZH |
| Max. cable length to logger ⁽²⁾ | 1000 m (for more information see FAQ#77) |

(1) A full rotation of potentiometer is about 240mm of displacement. Reading resets to zero after each rotation.

(2) refer to FAQ section of Sisgeo website: www.sisgeo.com/faq

PHYSICAL FEATURES



ACCESSORIES AND SPARE PARTS

WIRE EXTENSION KIT OD241W30EXT

Wire extension kit include 30 m steel wire (Ø 2 mm), 2 stainless steel redances, 2 copper clamps and snap hook.

OWE104K00ZH 4-WIRE SIGNAL CABLE

Electrical cable with 2 pairs of 22 AWG wire and LSZH jacket. External diameter 7.4 mm. Rated for -30° to + 80°C.

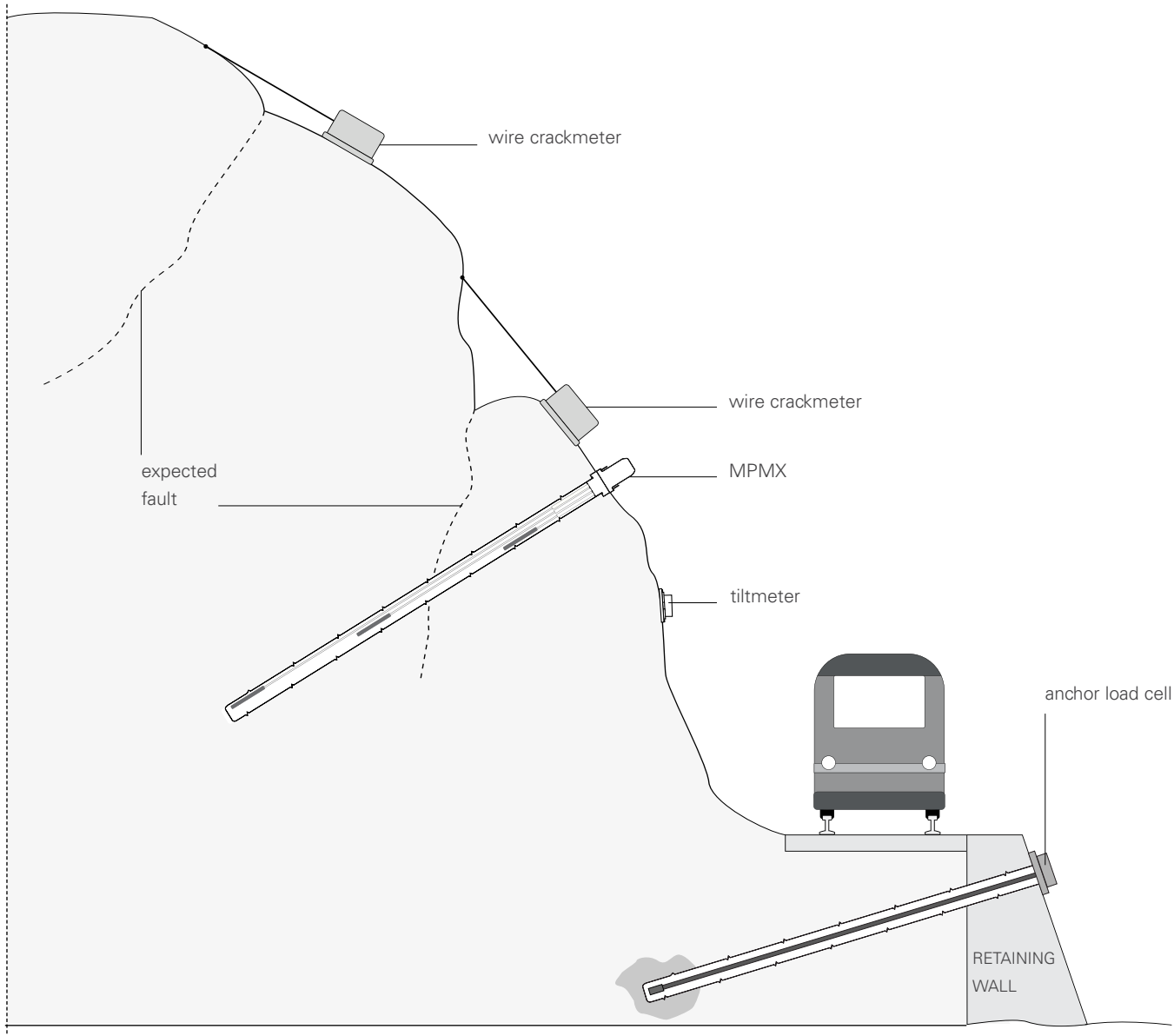
OEPDP004W00 OVERVOLTAGE PROTECTION JB

IP65 plastic junction box with tripolar overvoltage protections for instruments up to 4 wires. Overvoltage protection must be connected to earth ground.

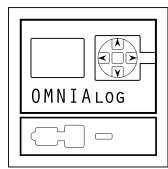
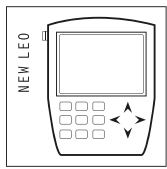
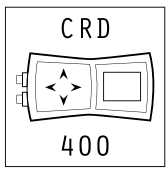


Wire crackmeter installed in a manhole with over voltage protection box

LANDSLIDE APPLICATION



READABLE BY



Refer to separate datasheets for further information.

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