StrayProbe®-Zn

StrayProbe® is designed for the cathodic protection monitoring of all types of buried structures (pipelines, distribution networks, tanks).
It consists of a reference electrode made of **pure Zinc** embedded in long lasting backfill and separated from a controlled shape steel coupon by an electrolytic membrane. All components are contained in a robust non-metallic case.

ADVANTAGES

- *StrayProbe®* measures the *IR-free-potential*, or *true potential*, of buried structures also in the presence of stray current interference and alternating currents (AC)
- It is a full substitute of the on-off technique
- In accordance with EN 50162 it facilitates the continuous potential measurement, in particular for remote monitoring systems
- It provides long-term durability

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StrayProbe® measures the *IR-free-potential*

StrayProbe®-Zn

INSTALLATION

StrayProbe® is buried in a bentonite backfill, close to the pipeline; the working side is orientated toward the soil.
The *steel coupon* (brown or black cable) is connected to the pipeline through a 10 Ohm shunt to measure the absorbed current
The voltmeter connected to the *pure Zn reference electrode* (blue cable) can have an impedance of 10 MΩ.
The potential of the steel coupon is in the range +0.3 to +0.6 V before electrical connection.

OPERATING

Adsorbed current usually ranges 0.1 to 5 mA (current density is about 0.1 to 6 A/m^2 on equivalent bare steel surface area).

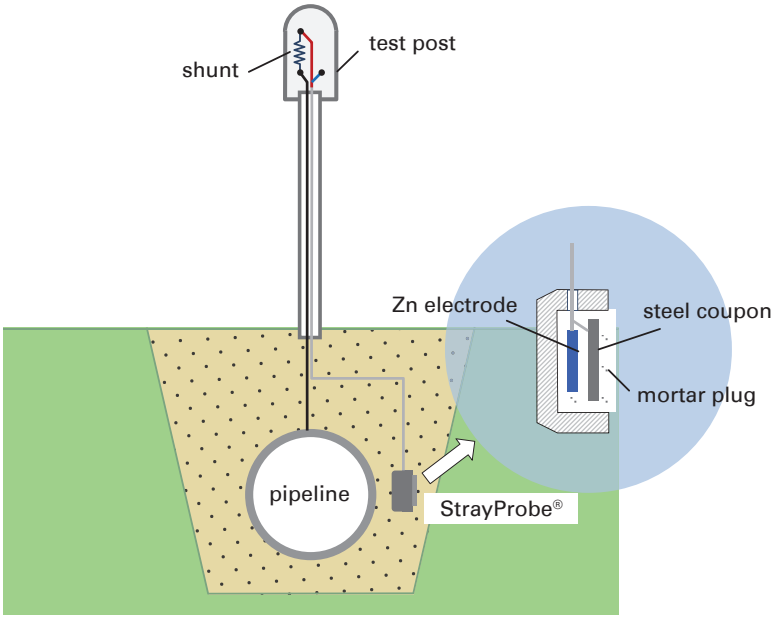
To refer the potential to CSE scale (copper/copper sulphate) –1.1 V has to be added (for example, +0.25 V measured by the *StrayProbe®-Zn* corresponds to –0.85 V CSE).

SIZE WEIGHT CABLES

Size: 130 mm in diameter and 48 mm thick.
Probe weight: 1.2 kg (2.4 lb).
Bipolar Cable: 2x2.5 mm^2, double insulation according to the normative; 6 m long or as per request.
Gross weight: 2 kg.

LIFE EXPECTANCY

No limitation.



CESCOR Srl

Via Maniago 12,
20134 MILANO (Italy)
tel +39 02 26412538
fax +39 02 26412546
info@cescor.it

www.cescor.it