CuRE 2.0

CuRE 2.0® is an innovative permanent reference electrode $Cu/CuSO_4$ combined with two coupons, for cathodic protection monitoring of underground metallic structures.

Advantages

- No ohmic drop in the measured potential
- No need of instant-off
- No cupric ions release
- AC/DC interference assessment
- Antifreeze gel electrolyte
- Stable and durable

Developed by

cescor

Manufactured by

CuRE 2.0

Designed by **CESCOR**. Manufactured by **ICP**.

CuRE 2.0® permanent reference electrode Cu-$CuSO_4$ with two coupons is a new generation device for cathodic protection monitoring of underground metallic structures, in accordance with EN ISO 15589-1 (European Patent no. EP3862465 09.11.2022).

The electrode potential is given by a copper element in contact with an electrolyte made of saturated copper sulphate gel.

Two coupons allow to measure the absorbed current and verify AC/DC interference, if any.

The electrode is designed and manufactured for a duration of more than 20 years with a measure circuit sampling 1/s h24.

CuRE 2.0® is environment-friendly, preventing any release of cupric ions.

INSTALLATION

The probe must be installed as close as possible to the structure (cathode), whose potential must be measured.

The activation of the electrode is immediate when in contact with the soil or after immersion in fresh water for about 1 minute. Whenever possible, it shall be left immersed for a longer time.

The underground installation depth should be approximately 0.8÷5 m from the ground level, with non-rocky excavation soil. If possible, wet the soil once the landfilling is completed.

The two coupons must be put in electrical continuity with the structure to be protected and they shall be opposite with respect to the pipeline, i.e. facing the protection current source.

ELECTRODE POTENTIAL

+77 mV vs. SCE

Precision: ± 30 mV.

STEEL COUPONS

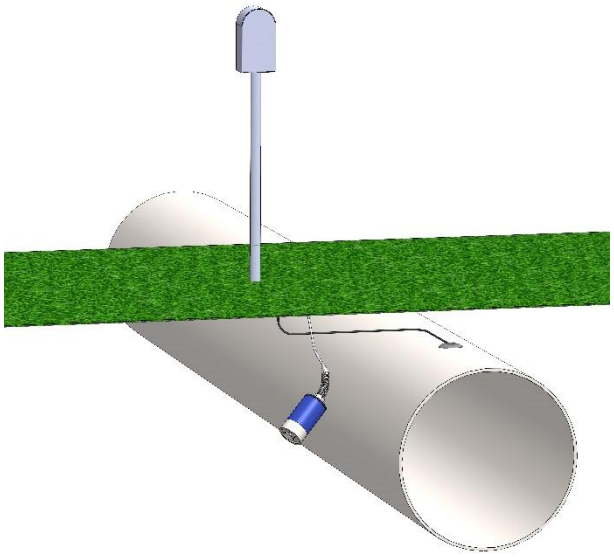
DC coupon: 10 cm^2 surface

AC coupon: 1 cm^2 surface (alt. 2 cm^2)

CABLE

Type HEPR/PVC FG16R16 4 x 2.5 mm^2.

Default length 15 m.



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