

Corrosion depth probe for pipelines

(with 4 depth sensors)

In cooperation with the Swiss Society for Corrosion Protection (SGK), we produce a corrosion depth probe for cathodic protected pipelines. This sensor ensures the safety of your pipelines. The four integrated sensors give an accurate impression of the depth of corrosion.



Specifications

Art. No. : 0014291

Ø 75 mm probe

10 m wire 5 x 1.0 mm²

active surface 1.00 cm²

Cable connection

wire Nr. 2 = sensor 1mm depth

wire Nr. 3 = sensor 2mm depth

wire Nr. 4 = sensor 3mm depth

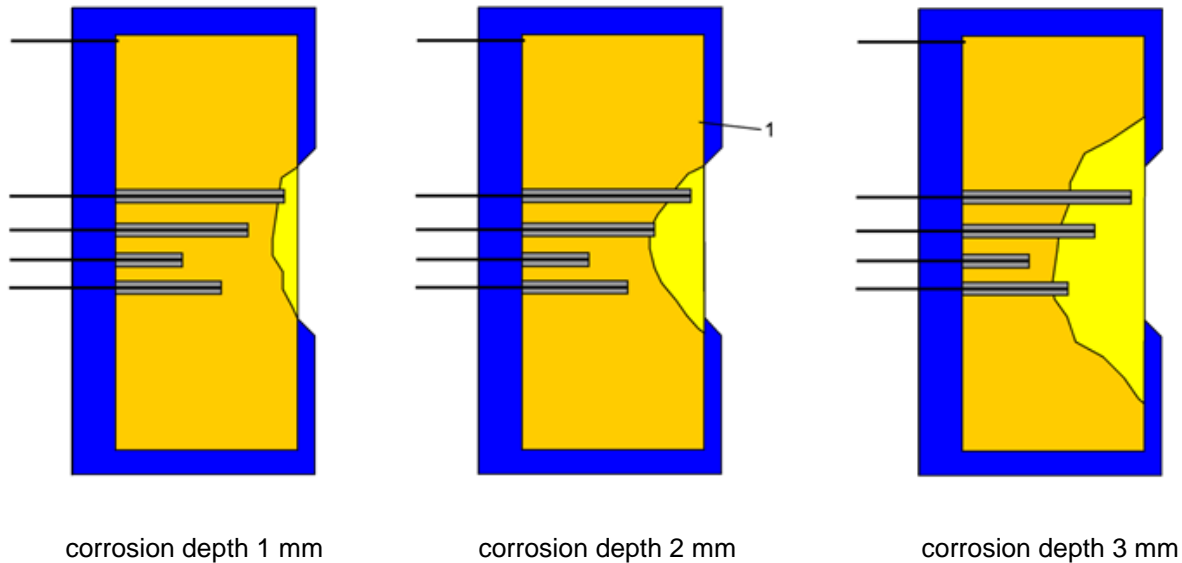
wire Nr. 5 = sensor 4mm depth

Advantages of depth probe

- The corrosion depth probe allows the detection of current-densities in accordance with EN 15280
- It is designed to allow for changes of surface area due to the corrosion process
- The additional ability to detect various corrosion depths (e.g. at 1 mm interval) allows the monitoring of the corrosion process over a certain period of time.
- It is capable of demonstrating the correct rate of corrosion that will establish over time
- A possible slowing down or stopping of corrosion can readily be detected
- Any uncertainty with respect to the electrochemically active surface is eliminated
- The probes can be measured with conventional voltmeters or monitored with conventional remote monitoring units
- The probe can additionally be equipped with a pH-sensor (still in experimental stage)

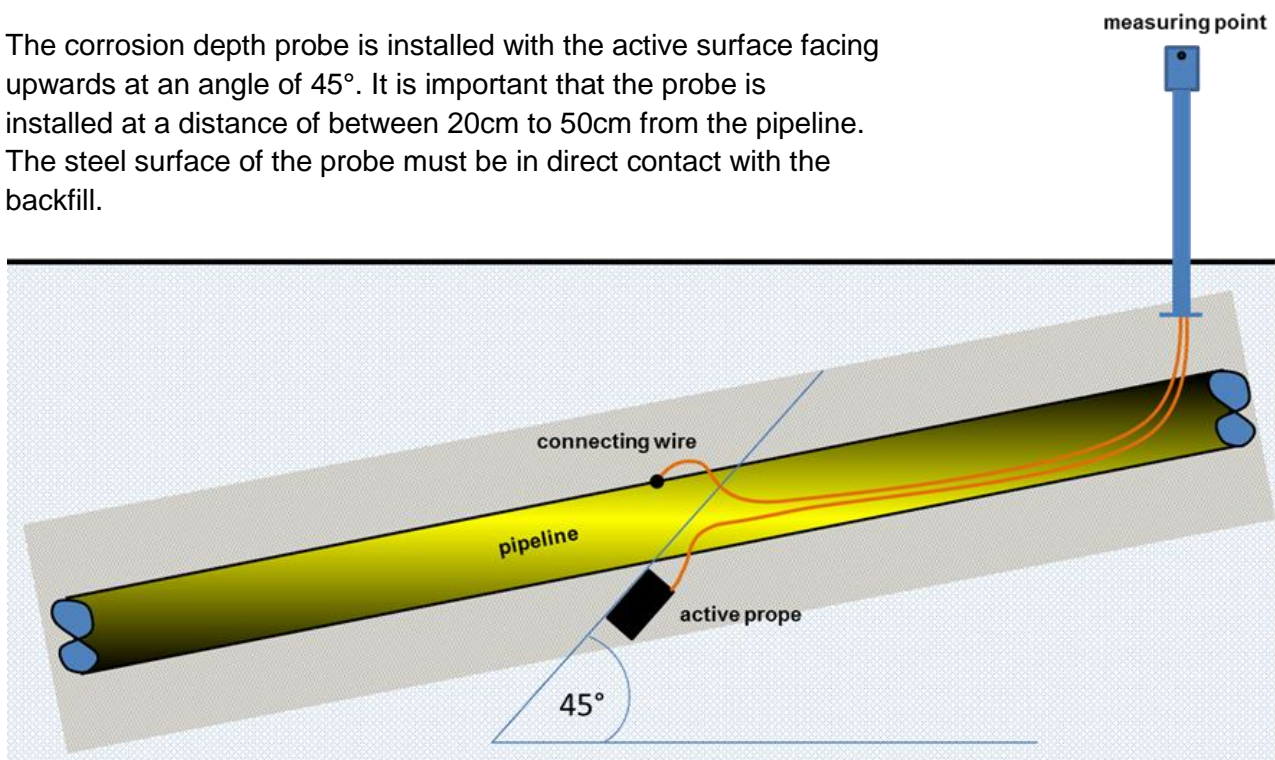
Following the corrosion process over time

The corrosion progress can be followed despite a lack of knowledge about the electrochemically active surface



Installation management of corrosion depth probe

The corrosion depth probe is installed with the active surface facing upwards at an angle of 45°. It is important that the probe is installed at a distance of between 20cm to 50cm from the pipeline. The steel surface of the probe must be in direct contact with the backfill.



Manufacture and marketing:

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