

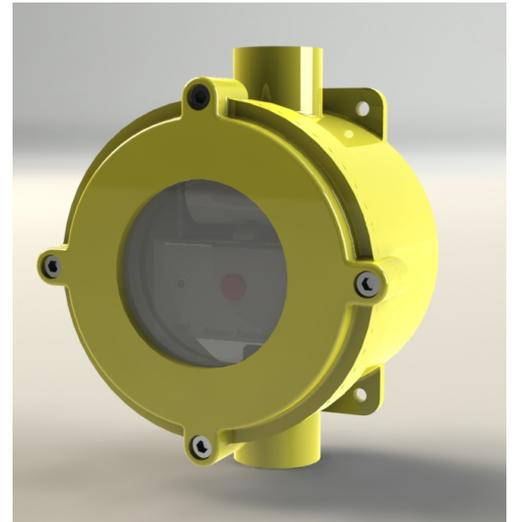
AP100 EX-PROOF POTENTIAL ALARM

The AP100 Ex-Proof Potential Alarm is a self-contained instrument that allows staff with no specific knowledge of cathodic protection to visually check that their system is operating properly.

To ensure that a holiday can be observed, an acknowledgement "without opening the box" is required to return to a "normal" status.

This product is particularly suited for the monitoring of:

- Buried tanks
- Gas stations
- High-risk areas
- Sites concentrated on a zero energy point
- Etc.



The AP100 Potential Alarm integrates new technologies in the fields of very low power consumption and optics.

Its main features are as follows:

- Simplified Human Machine interface
- Extremely simplified settings
- Operating life: ten years in normal mode, one year in alarm mode
- Enclosure made of marine grade aluminum alloy (AS10GY30), Ex II 2 G – Eexd IIC T6; IP56 protection index.

Suitable for use in Zone 1 and Zone 2 ATEX environments



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TECHNICAL SPECIFICATION

ELECTRICAL

Power supply	: Lithium battery, 3.6 V 16.4 Ah, D case
Current consumption	: 70 μ A in normal mode
	: 1.5 mA average in alarm mode
Operating life	: 10 years in normal mode (battery life)
	: Min. 1 year in alarm mode (with a new battery)
Protections	: Thermistor on power supply
	: 3.3 V zener diode and filter on electrode input
Electrode input (Ref. electrode/Structure)	: For Cu/SO ₄ only, 5 V peak max. - 3.3 V average max.
	: 4 μ A @ 5 V; measuring error \pm 50 mV max. @ 5 V,
	: \pm 25 mV max. @ 1 V.

MECHANICAL

Dimensions	: 166 mm x 195 mm x 109 mm
Weight	: 2.2 kg
Material	: Marine grade aluminum alloy (AS10GY30)
Color	: Polyurethane paint finish, yellow RAL 1003
Installation	: Mount on wall or pole by means of four M6 screws
Protection	: Ex II 2 G – Eexd IIC T6; IP56.

ENVIRONMENTAL

Operating temperature	: -20° to +40° C
	: Surface classification T6
Storage temperature	: -40° to + 85° C
GAS environment	: Zone 1 and Zone 2.

MISCELLANEOUS

Battery life, max.	: 10 years
On/Off cycles	: 10,000 cycles
RESET/Test cycles on magnetic field	: 10,000,000 cycles
Pilot lamp color	: Red (λ d 626 nm)
Lamp intensity	: 12000 to 16000 mcd at 6 deg.
Vision angle	: 80 deg. direct, 140 deg. indirect



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