Mobrey Hydratect 2462

Steam and Water Detection System

Because

Safety matters.

The Mobrey Hydratect 2462 is

SIL 3 certified

to IEC 61508.

Steam/Water Detection for Demanding Conditions

The electronic alternative to conventional water level switches, the Mobrey Hydratect 2462 detects the unwanted presence of steam or water in safety critical applications. The Mobrey Hydratect is suitable for process conditions of up to 4350 psi and 1040 °F (300 bar and 560 °C), far higher than most other technologies.

Certified to IEC 61508 with SIL 3 Capability

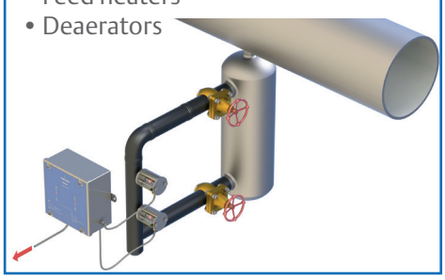
The Mobrey Hydratect 2462 is certified to IEC 61508 (as required by IEC 61511). It is a two channel device and achieves SIL 3 when the two status outputs are wired for 1oo2 trip validation, or SIL 2 if each channel is used independently.

Highest Reliability and Fail Safe Operation

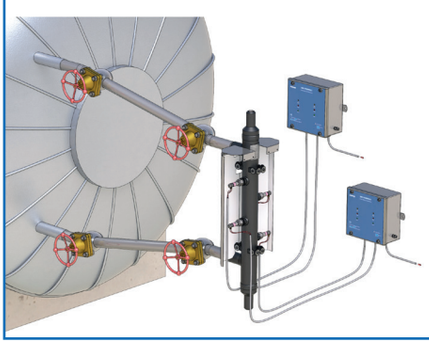
The Mobrey Hydratect 2462 provides signal processing for two electrodes installed in the process. Each channel monitors the state of its associated electrode and has a status LED and output relay to indicate steam or water. The two channels are completely independent with separate power supplies, signal processing and fault detection. The patented design uses phase detection and triple redundancy to ensure any failure will result in a safe condition.

Typical Applications

- Drain pot /steam trap level
- Turbine Water Induction Protection (TWIP)
- Feed heaters
- Deaerators



- Steam drum level alarms



delta-mobrey

Specifying a Mobrey Hydratect 2462 system

A Mobrey Hydratect 2462 system comprises:

A single Mobrey Hydratect 2462 control unit

2462A ac mains supply. Single pole single throw relay output
2462C 24V dc supply. Single pole single throw relay output
2462E ac mains supply. Two pole changeover relay output
The option with suffix QT includes a serialised SIL certificate to IEC 61508 and functional safety manual. Example: 2462AQT

Two electrode inserts*

24673540B

Two high temperature electrodes

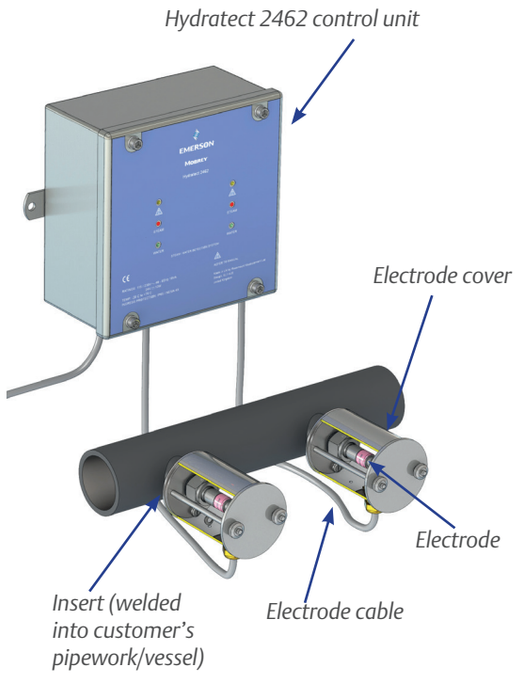
246785A ZTA insulator 4350 psi (300 bar), 1040 °F (560 °C)
246785Z Zirconia insulator 3045 psi (210 bar), 698 °F (370 °C)

Two electrode covers

24670118A

Two electrode cables

24620204A 10ft (3m) 24620205A 33ft (10m)
24620206A 59ft (18m) 24620207A 98ft (30m)



** A manifold can be supplied on request. Consult your sales office for details*

Specification

Measurement Type	Steam and water detection
Input	2 (electrode channels from pipework or manifold to control unit)
Output	Relays to indicate the presence of steam or water (one per channel) Relays for fault indication (one per channel)
Power Supply	Mains AC option: 94 to 130 V or 187 to 256 V, 48 Hz to 65 Hz, 2 x 10 VA maximum DC option: 20 to 60 V, 2 x 10W
Display/Interface	Red LED for indication of steam Green LED for indication of water Amber LED for indication of fault
Operating Pressure	Dependent on pipework or manifold specifications

For further information go to: https://www.delta-mobrey.com/products/product-class/mobrey-hydratect-2462-steam-and-water-detection-system-with-sil-certification/

Delta Mobrey Limited
Rivrside Business Park, Dogflud Way
Farnham, Surrey
GU9 7SS, UK

T +44(0) 1252 729 140
F +44(0) 1252 729 168

Delta-Mobrey.com
Facebook.com/Delta-Mobrey
LinkedIn.com/company/Delta-Mobrey
Twitter.com/Delta-Mobrey

delta-mobrey