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15 MAGSIG™ MODEL 4000D Non Intrusive Pig Signaller

OVERVIEW

The OnlinE Model 4000D MAGSIG™ is a robust Non-Intrusive Magnetic Pig Signaller used to detect, signal, and log the passage of magnetic pigs at critical points along a pipeline. The MAGSIG™ can be used on offshore platforms and vessels, as well as for pipeline projects on land.

The unit is ATEX compliant and housed within a fully certified aluminium or 316SS explosion proof housing suitable for use in Zone 1, Zone 2 group IIA, IIB, and H2 Areas.

The unit can log up to 50 events with time and date. Logged events can be viewed on a 2.7" high visibility display incorporated into the unit.

Pig passages can also be signalled as they occur with ultra-bright LEDs incorporated into the unit which are visible from up to 100m away. Prior to clearing the history of events, it is possible to connect the signaller to a PC and download stored data.

One external control button is used to turn the unit on and off and cycle through and erase events through a simple menu interface.

The MAGSIG™ can be quickly and easily attached to a pipeline through the use of ratchet straps or steel bands.

Pigs must be fitted with rare earth magnets (neodymium-iron-boron) around the pig body. Detection speed ranges from 0.1 to greater than 10 metres per second.

The window of detection, typically 0.2m either side of the MAGSIG™, varies in accordance with the pipeline diameter and wall thickness.

ADDITIONAL OPTIONS

A sensor extension can be used to bring the MAGSIG™ sensor to the surface of buried pipelines or when there is limited access.

For remote monitoring the MAGSIG™ can provide relay closure or open collector transistor outputs on detection of a pig.

The MAGSIG™ can output RS232 through a SWA (Steel Wire Armoured) cable or a suitable EEx e junction box to a control console in a non-hazardous zone.

The MAGSIG™ can be externally powered from a 24V DC source.

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Battery Life	250 days (listening)
Battery Type	9 V DC Alkaline D cell pack
Operating Voltage	24 V DC (Externally Powered version)
Pig direction	Bi-directional
Enclosure	IP66
Housing Material	Copper free Aluminium/316SS Copper free Alluminium alloy LM25 (EN AC-4200), (BS14980)
Operating Temp. Range	-20 °C to 70°C
ATEX Classification	⊕ II 2G Ex d IIC T4..T6 X
Detection Range	0.5m
Dimensions	
Length	150mm (5.9")
Diameter	150mm (5.9")
Length (including sensor and mounting block)	256mm (10")
Weight	3.6kg Aluminium / 6kg 316 SS

