

4000SD

SUBSEA MAGNETIC SIGNALLER

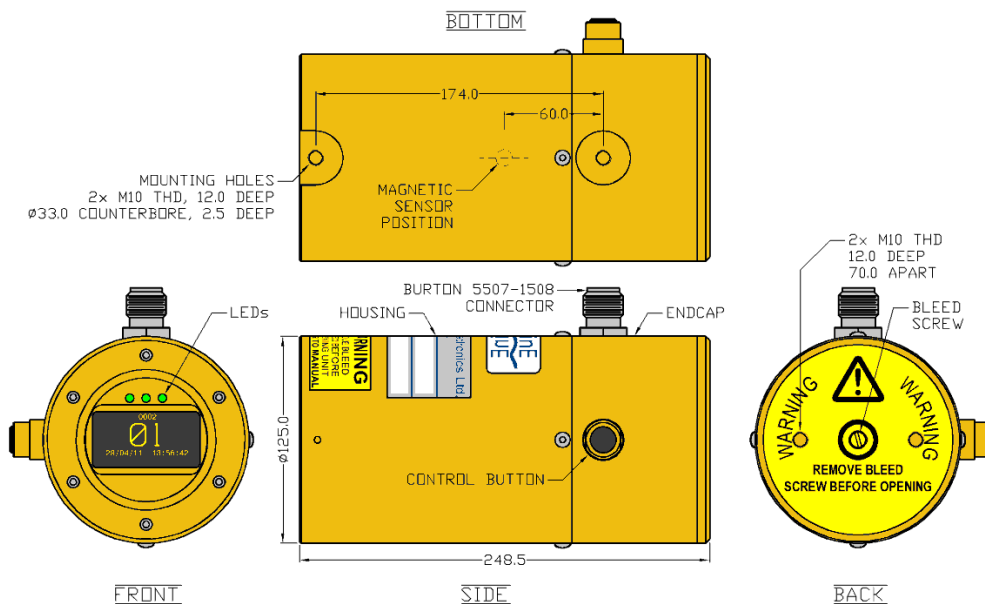
The 4000SD magnetic pig signaller is a compact, self-contained, non-intrusive, magnetic pig signaller suitable for harsh subsea applications. The 4000SD detects, logs, and signals (via the display and LEDs) the passage of magnetic pigs at critical points along a subsea pipeline.

Key Benefits:

- Use of the 4000SD can result in time and therefore cost savings
- Removes any uncertainty over confirmation of pig passage
- Quick and easy installation using ratchet straps or custom ROV cradle
- Minimal set up required ensuring time is not lost setting up multiple parameters
- Versatile – can be installed on any pipeline with wall thickness up to 40mm, carrying any medium and with pigs running at varying speeds
- Acoustic link option allows vessel to “listen” for pig receipt from launch site

The unit can log the time and date of up to 99 pig passages. This logged information can be viewed at any time locally using the integrated, high visibility, OLED display or transmitted remotely over several optional interfaces. The user can turn the unit ON and OFF as well as modify several settings using the single control button and intuitive menu system.

The detection capabilities vary depending on the background magnetic noise, pig speed, pipeline diameter, wall thickness and the quality of magnets fitted. It is recommended that pigs are fitted with rare earth magnets (neodymium iron boron) to maximise magnetic signal.



GENERAL:

Battery life LISTENING or SIGNALLING in STANDARD POWER MODE at +0°C 45 days
 Battery life in LISTENING in LOW POWER MODE at +0°C..... 120 days
 Battery life in STANDARD POWER MODE with RS232 connected at +0°C 40 days
 Battery life in LOW POWER MODE with RS232 connected at +0°C 90 days
 Battery type 10.5V Alkaline pack BATT 000467
 Operating temperature range..... -5°C to +70°C (+23°F to +158°F)
 Operating Depth..... 3,000m (9,842ft)
 Logging capacity 99 events
 Weight in air (including delrin mount) 14.1kg (31lbs)
 Weight in water (including delrin mount)..... 9.1kg (20lbs)
 Pig Speed Range 0.01m/s to 20m/s

MATERIALS:

Housing materialALLOY BRONZE CA104 EN 12163
 Endcap materialALLOY BRONZE CA104 EN 12163
 Bleedscrew material.....ALLOY BRONZE CA104 EN 12163
 Window material ACRYLIC
 Endcap o-rings..... 2x BS 50-243 NBR70 with 2x BS 250-243 PTFE BURs
 Window o-rings 1x BS 50-236 NBR70 and 1x BS 50-237 NBR70
 Bleedscrew o-ring..... 1x BS 50-008 NBR70

OUTPUT OPTIONS:

Serial data communication..... RS232
 Remote communication.....Acoustic data transducer
 Relay outputs..... DPDT, 30VDC @ 1.0A
 Transistor open-collector output 30V, 0.1A
 Switched voltage output..... Vbatt, 0.05A

AUXILLIARY ITEMS:

ROV switch
 Strobe to locally indicate pig passage
 ROV deployable cradle



Date

