

# 4000SD SUBSEA MAGNETIC SIGNALLER

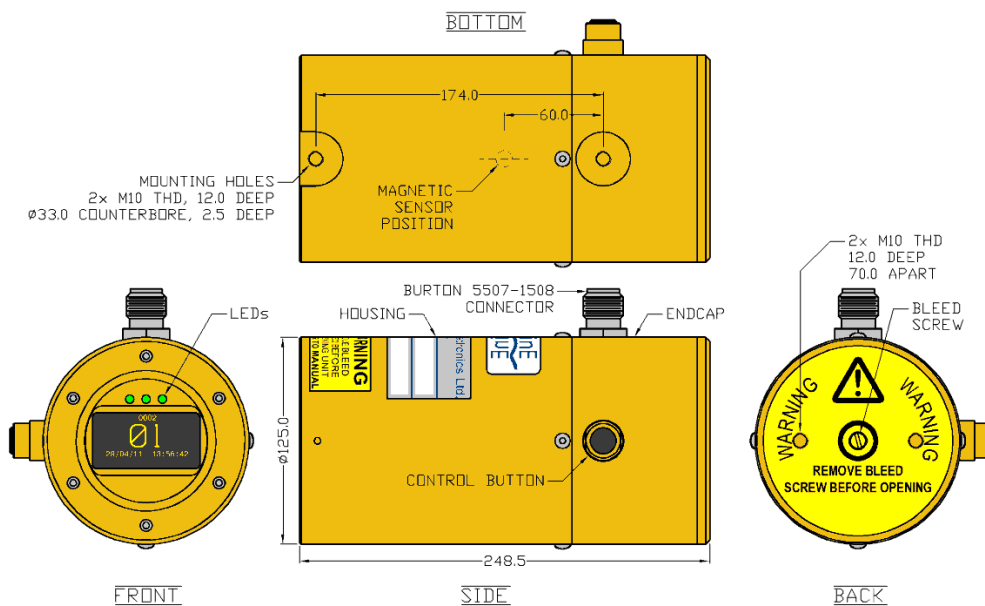
The 4000SD magnetic pig signaller is a compact, self-contained, non-intrusive, magnetic pig signaller suitable for harsh subsea applications. The 4000SD detects, logs, and signals (via the display and LEDs) the passage of magnetic pigs at critical points along a subsea pipeline.

**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 material .....	ALLOY BRONZE CA104 EN 12163
Endcap material .....	ALLOY 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