

# 4001D MAGSIG® PIG SIGNALLER



The 4001D MAGSIG® is a fully ATEX, UKEX and IECEX certified non-intrusive pig signaller which quickly and accurately detects, signals and logs the passage of magnetic pigs at critical points along a pipeline both onshore and offshore.

## Key Benefits

- Removes any uncertainty over confirmation of pig passage.
- Quick and easy installation using ratchet strap or stainless steel banding.
- Minimal set-up required ensuring time is not lost setting up multiple parameters.
- Versatile - can be installed on any pipeline up to 60" diameter with wall thickness up to 50mm, carrying any medium and with pigs running at varying speeds.
- No location restrictions - can be located on major barrel and magnetic sensor can be supplied on a cable up to 10m long for use on buried pipelines or where access is limited.
- Unit can be installed close to receiver door, allowing for confirmation that pig has passed isolation valve and easy pig recovery.

Interested in hearing more about this, or other applications?  
Contact our IK Trax specialists at:

**IK Trax**  
T: +44 (0)1224 714714  
E: Sales@iktrax.com

# 4001D MAGSIG® PIG SIGNALLER

Events are signalled as they occur via a graphical display and high brightness LEDs positioned around the perimeter of the display. The unit logs the time and date of up to 99 events. Logged events can be viewed locally on the 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.

Advanced Survey mode provides a live graphical representation of Gauss readings allowing you to discover the magnetic signature of your pig. This ensures precise monitoring and provides data for further analysis.

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.

## PRODUCT SPECIFICATION

Battery Type (Alkaline)	7x Alkaline DURACELL ID1300 cells
Battery Type (Lithium)	7x Lithium SAFT LS33500 cells
Typical Battery Life	160 days (Alkaline) 365 days (Lithium)
External Supply	+21.6VDC to +26.4VDC, <1.0W
Entries	4x M20x1.5
Temperature Range (Alkaline)	-20°C to +54°C (-4°F to +130°F)
Temperature Range (Lithium)	-40°C to +85°C (-40°F to +185°F)
Temperature Range (External Supply)	-40°C to +85°C (-40°F to +185°F)
Pig Speed Range	0.01m/s to 20m/s

## MATERIALS & DIMENSIONS

Housing Material	Aluminium or 316L Stainless Steel
Length (including mounting plate)	240mm (9.4")
Width (including mounting plate)	192mm (7.6")
Height (including mounting plate)	174mm (6.9")
Weight in Aluminium	5.2kg (11.5lbs)
Weight in 316L Stainless Steel	11kg (24.3lbs)

## CERTIFICATION

ATEX/UKEX/IECEX Code	II 1/2 G Ex db ia [ia Ga] IIC T4..T6Gb
EU Type Examination Cert No	TRAC 13 ATEX 0008 X
UK Type Examination Cert No	EMA 22 UKE X0005 X
IECEX Cert No	IECEX TRC 12.0017 X
Enclosure Ingress Protection	IP66

## STANDARD OUTPUTS

DPDT Relay (Volt Free Contacts)	2A @ 30VDC/0.5A @125VAC
Current Loop Relay	15.mA ± 1.0mA (LISTENING) / 19.0mA ± 1.0mA (DETECTION)

Interested in hearing more about  
this, or other applications?  
Contact our IK Trax specialists at:

**IK Trax**  
T: +44 (0)1224 714714  
E: Sales@iktrax.com