

ID5000A Ultrasonic Pig Signaller



The ID5000 (Active) is a fully ATEX certified, non-intrusive pig signaller which detects, signals and logs the passage of pigs at critical points along a liquid pipeline both onshore and offshore. The ID5000A can also be used to confirm the position of pigs in the receiver.

Key Benefits

- Removes any uncertainty over confirmation of pig passage.
- Locating function allows for confirmation that pig has passed isolation valves.
- Suitable for all pig types - no transmitters or magnets are required to confirm passage or location in the receiver.
- Quick and easy installation using ratchet strap or stainless steel banding.
- Minimal set-up required ensuring time is not lost setting up multiple parameters.
- Unit can be installed close to receiver door, allowing for easy pig recovery.
- Main housing can be mounted remotely for use on buried pipelines or where access is limited.

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

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The ID5000A uses the pulse-echo method to detect the time of flight of ultrasonic pulses through the pipe. An ultrasonic pulse is sent through the pipe wall and as long as the pipeline is liquid-filled (single phase, no gas bubbles, no large solid particles), the unit is able to see a reflection of the pulse from the other side of the pipe. When a pig passes, the fluid path is disturbed interrupting the reflection of the pulses transmitted. This interruption is processed and the pig passage is signalled.

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 then turn the unit ON and OFF as well as modify settings using the single control button and intuitive menu system.

PRODUCT SPECIFICATION

Battery Type (Alkaline)	15V Alkaline Battery Pack
Battery Type (Rechargeable)	12V NiMh Rechargeable Battery Pack
Typical Battery Life	120 days (Alkaline) 12 days (Rechargeable)
External Supply	21.6 VDC to 26.4 VDC
Temperature Range (Alkaline)	-20°C to +54°C (-4°F to +130°F)
Temperature Range (Rechargeable)	-20°C to +65°C (-4°F to +149°F)
Temperature Range (External Supply)	-40°C to +85°C (-40°F to +185°F)
Maximum Pipeline Surface Temperature	+85°C (+185°F)

MATERIALS & DIMENSIONS

Housing Material	Aluminium or 316L Stainless Steel
Length (including mounting plate)	240mm (9.4")
Height (including mounting plate)	260mm (10.2")
Transducer Mount Height	150mm (6")
Weight in Aluminium	11.5kg (23.4lbs)
Weight in 316L Stainless Steel	15kg (33lbs)

CERTIFICATION

ATEX Code	II 2 G Ex d mb IIC T5...T6
EC Type Examination Cert No	TRL09ATEX21161X
Enclosure Ingress Protection	IP66

STANDARD OUTPUTS

SPDT Relay (Volt Free Contacts)	2A @ 30VDC/0.5A @125VAC
Current Loop Relay	5.mA ± 1.0mA (LISTENING) / 19.0mA ± 1.0mA (DETECTION)

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