

## PRODUCT

# ID5001P NON-INTRUSIVE ULTRASONIC SIGNALLER



THE ONLINE ID5001 (PASSIVE) IS A FULLY ATEX AND IEC EX CERTIFIED, NON-INTRUSIVE PIG SIGNALLER WHICH QUICKLY AND ACCURATELY DETECTS, SIGNALS AND LOGS THE PASSAGE OF PIGS AT CRITICAL POINTS ALONG A PIPELINE BOTH ON LAND AND OFFSHORE.

### Key Benefits:

- Use of the ID5001P can result in time and therefore cost savings during pigging operations.
- Removes any uncertainty over confirmation of pig passage.
- Quick and easy installation using ratchet straps or stainless steel banding.
- Minimal set up required ensuring time is not lost setting up multiple parameters.
- Suitable for all pig types - no transmitters or magnets are required to confirm passage or location in the receiver.
- Suitable for gas and liquid pipelines.
- Main housing can be mounted remotely for use on buried pipelines or where access is limited.

The ID5001P monitors the acoustic emissions created by the vibrational and acoustic noise generated as a pig moves through a pipeline. The unit then processes the emissions to identify the signature of a passing pig.

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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.

The ID5001P has two basic parts, main housing and sensor. The sensor is permanently connected to the main housing via a cable and can be quickly and easily attached to the pipeline using ratchet straps or steel banding. The main housing contains all electronics, display and the control button and can be mounted onto the pipeline using a mounting plate and straps in a similar fashion to the sensor or mounted on a wall or post.

### PRODUCT SPECIFICATION

Battery Type	7x Alkaline DURACELL ID1300 cells
Battery Life (Alkaline)	15 days (LISTENING/LOW POWER MODE at +20°C)
Battery Type	7x Lithium SAFT LS33600 cells
Battery Life (Lithium)	30 days (LISTENING/LOW POWER MODE at +20°C)
External Supply	24.0 VDC, <2.0W
Entries (other options available)	4x M20x1.5
Housing Temperature Range (External Supply)	-40°C to +85°C (-40°F to +185°F)
Housing Temperature Range (Alkaline)	-20°C to +54°C (-4°F to +130°F)
Housing Temperature Range (Lithium)	-40°C to +85°C (-40°F to +185°F)
Sensor Temperature Range	-55°C to +110°C (-67°F to +230°F)
Maximum Pipeline Surface Temperature	+150° (+302°F) <small>Note 1</small>
Typical Minimum Pig Speed	0.1m/s <small>Note 2</small>
Main Housing Ingress Protection	IP66
Sensor Ingress Protection	IP68
ATEX/IECEX Code	Ex II 1/2 G
IECEX Code	Ex ia/db [ia Ga] IIC T4...T6 Ga/Gb
EU Type Examination Cert No.	TRAC 13 ATEX 0008X
IECEX Cert No	IECEX TRC 13.0006X
UKEX Type Examination Cert No.	EMA22UKEX0006X
Weight in Aluminium	8kg (17.6lbs)
Weight in 316L Stainless Steel	13kg (28.7lbs)
Cable Length	5 metre (16ft) or 10 metre (32ft)
Length (including mounting plate)	240mm (9.4")
Width (including mounting plate)	192mm (7.6")
Height	174mm (6.9")

### OUTPUTS

DPDT Relay	2A @ 30VDC <small>Note 3</small>
Current Loop Output	4-20mA <small>Note 4</small>
Serial Data Interface	RS485 MODBUS

Note 1 Maximum allowable pipeline surface temperature depends on ambient air temperature and mounting configuration. Only the sensor may be mounted on the pipeline.

Note 2 Minimum pig speed depends on pig type, pipeline configuration and installation position.

Note 3 DPDT is equivalent to 2xSPDT

Note 4 Current loop levels are configurable between 4mA and 20mA. Default set state 20.0mA. Default reset state 4.0mA. Tolerance between ± 1.0mA.

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