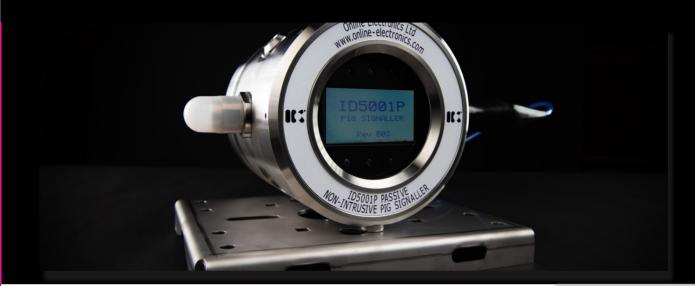
PRODUCT

ID5001P NON-INTRUSIVE ULTRASONIC SIGNALLER





THE ONLINE ID5001 (PASSIVE) IS A FULLY ATEX AND IECEX 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) 3x M20x1.5

Housing Temperature Range (External Supply) -40°C to $+85^{\circ}\text{C}$ (-40°F to $+185^{\circ}\text{F}$)
Housing Temperature Range (Alkaline) -20°C to $+54^{\circ}\text{C}$ (-4°F to $+130^{\circ}\text{F}$)
Housing Temperature Range (Lithium) -40°C to $+85^{\circ}\text{C}$ (-40°F to $+185^{\circ}\text{F}$)
Sensor Temperature Range -55°C to $+110^{\circ}\text{C}$ (-67°F to $+230^{\circ}\text{F}$)

Maximum Pipeline Surface Temperature +150° (+302°F) Note 1

Typical Minimum Pig Speed 0.1m/s Note 2
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 0008XIECEx Cert NoIECEx TRC 13.0006XUKEX 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 Note 3

Current Loop Output 4-20mA Note 4

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 \pm 1.0mA



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