

Online Electronics Ltd.
Online House, Blackburn Business Park
Woodburn Road, Blackburn
Aberdeen, AB21 OPS, UK
Tel: +44 (0)1224 714714
OEL-Sales@ik-worldwide.com.com
www.online-electronics.com





## **Channel Partner**

Royal Mechanical Group Pty Ltd Level 14, 197 St. Georges Tce, Perth, WA 6000, Australia +61 (0) 452 506 896

www.royalmechgroup.com Sales@royalmechgroup.com

## ID5001P NON-INTRUSIVE ULTRASONIC SIGNALLER

The ID5001P (Passive) pig signaller is a fully ATEX and IECEx certified, Exd flameproof, non-intrusive, pig signaller which detects, signals, and logs the passage of pigs at critical points along a pipeline both on land and offshore.

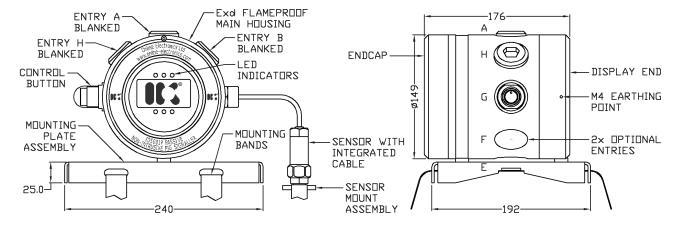
## **Key Benefits:**

- Use of the ID5001P can result in both time and cost savings during pigging operations
- Removes any uncertainty over confirmation of pig passage
- Quick and easy installation using ratchet straps or steel banding
- 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.

Events are signalled as they occur via a graphical display and high brightness LED. 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, as shown below. 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.





## **GENERAL**

External Supply	
Battery type	
Battery life (Alkaline) in LISTENING/LOW POWER MODE at +20°C15 days	
Battery type	
Battery life (Lithium) in LISTENING/LOW POWER MODE at +20°C30 days	
Housing Ambient Temperature range (External supply)40°C to +85°C (-40°F to +185°F)	
Housing Ambient Temperature range (Alkaline)20°C to +54°C (-40°F to+130°F)	
Housing Ambient Temperature range (Lithium)40°C to +85°C (-40°F to +185°F)	
Sensor Ambient Temperature Range55°C to +110°C	
Maximum Allowable Pipeline Surface Temperature+150°C NOTE1	
Typical minimum pig speed	
Main Housing Ingress Protection	
Sensor Ingress Protection	
ATEX	code
IECEx codeEx d ia [ia Ga] IIC T4T6 Gb	
EU Type Examination Certificate Number	
IECEx Certificate Number	
Weight in Aluminium8kg	
Weight in Stainless Steel	
Standard Housing Entries	
OUTPUTS	
DPDT Relay Output (Volt Free Contacts)	
Current Loop Output	
Serial Data Interface	
NOTE1	Maximum allowable pipeline surface temperature depends on ambient air temperature and mounting configuration. If pipeline surface temperature exceeds +85°C only the sensor may be mounted on the pipeline.
NOTE2	Minimum pig speed depends on pig type, pipeline configuration and installation position.
NOTE3	DPDT is equivalent to 2x SPDT.
NOTE4	Current Loop levels are configurable between 4mA and 20mA. Default listening state 4.0mA. Default detection state 20.0mA. Tolerance $\pm 1.0$ mA.