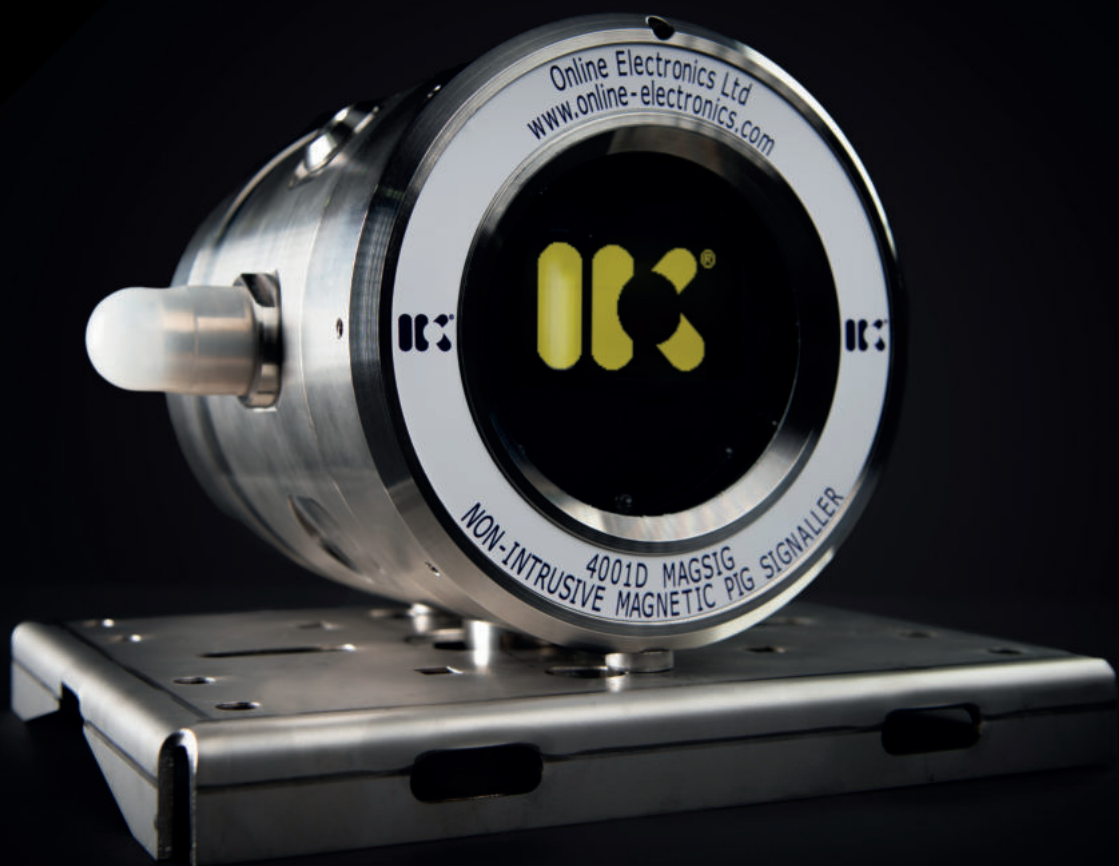


Non-Intrusive
PIG SIGNALLERS //

INNOVATIVE KNOW-HOW



ABOUT //

Online Electronics (OEL) was formed in 1996, and acquired by the IK-Group in 2015, OEL provides a wide range of pig locating and detection equipment for the whole pipeline industry, from construction, through operational life to de-commissioning.

IK-Group is an innovative supplier of specialist products and services for pipe and pipelines, subsea and topside.

With 25 years experience, OEL is the technological market leader in pig tracking signalling and detection. Using acoustic, electromagnetic, magnetic and ultrasonic technologies combined with electronics expertise, OEL can meet the demands of any given application. In addition, OEL provide pipeline datalogging, communication and testing solutions as well as bespoke engineering projects.

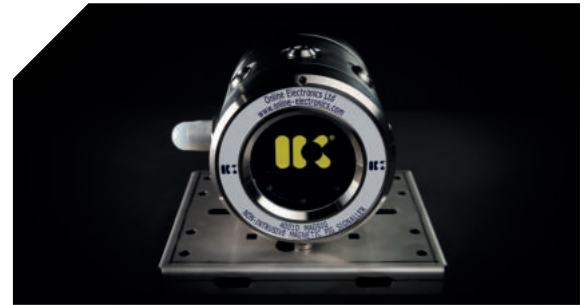
Our Non-Intrusive signallers offer several levels of hazardous area approvals to ATEX, IECEx, and CSA C&US.



MAGNETIC NON-INTRUSIVE SIGNALLERS //

Compact magnetic signallers detect magnetic pigs in any pipeline medium and are designed to accommodate thick wall, along with low and high-speed pig applications.

Non-Intrusive signallers can be installed quickly and easily to the pipeline. They can be removed without difficulty if maintenance is required, eliminating the need to suspend production and avoiding significant costs as a result.



4001D MAGSIG® ONSHORE AND TOPSIDE

The 4001D is suitable for pipelines of any size and has no location restrictions. It is both ATEX and IECEx certified and can be used onshore and topside.

The 4001D is a versatile pig signaller and can be installed on pipelines with wall thickness up to 50mm, carrying any medium and with pigs running at varying speeds.



4000SD SUBSEA

The 4000SD is suitable for harsh subsea applications and is rated to 3000m. Quick and easy installation using ratchet straps or custom ROV cradle.

The 4000SD can be provided with an ROV switch allowing for parameters to be altered subsea without recovering the unit to the surface. An optional acoustic link means the vessel can listen for pig receipt from the launch site meaning an ROV does not need to be positioned at the receiver. A strobe can be provided to allow an ROV operating at the launcher valves to confirm the pigs have launched successfully.



4003D MAGSIG® ONSHORE AND TOPSIDE

CSA C&US Class 1 Division 1 certified non-intrusive magnetic signaller for use on onshore pipelines in addition to offshore platforms and FPSOs.

The 4003D can transmit to your SCADA via contact closure or 4-20mA. Two way communication can be made to read event data or make unit changes.



2-STAGE DETECTION ALGORITHM

Online Electronics non-intrusive magnetic signallers use a 2-stage detection algorithm which provides added assurance that a pig has safely passed a location. This can be critical to prevent a valve being closed on a pig or lost time in identifying the pig location.

Once the pre-set threshold has been reached the unit displays "PIG APPROACH" to show the pig approaching or within detection range. The unit only signals "PIG PASSED" when the second detection criteria is met, i.e. when the flux value drops by a set amount.

The user can review all logged events and differentiate between the pig safely passing the signaller and the pig potentially stalled by reviewing the accompanying graphical data.

ONSHORE AND TOPSIDE REMOTE SIGNALLING AND COMMUNICATION OPTIONS

There are a number of available options for remote pig passage signalling:

- DPDT (VFC) dry relay
- 4-20mA
- Satellite communication
- LoRa/LoRaWAN radio transmission.
- Additionally Bluetooth and RS485 MODBUS permits two-way communication for remote programming and data download.

Please contact Online Electronics Limited to discuss your specific remote signalling and communication needs.

ULTRASONIC AND ACOUSTIC SIGNALLERS//

Ultrasonic signallers confirm the passage of pigs without the need for magnets or transmitters. Ultrasonic (ID5000A™) can be used for liquid pipelines where the exact location of any pig can be established, allowing for verification that the pig has cleared all valves and can be recovered.

ID5000A™ TOPSIDE (LIQUID LINES)

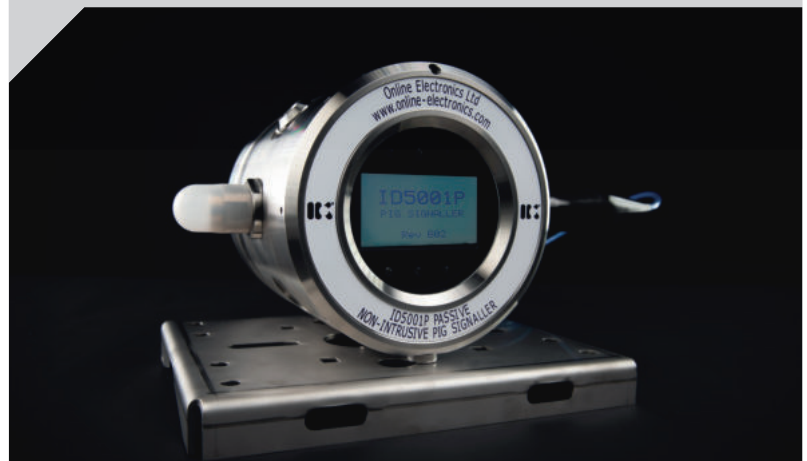
ID5000A™ uses a sound beam to detect, signal and log passage of pigs in the pipeline. The active signaller is suitable for all pig types. This can be used onshore and topside. It can also be used to survey for exact location of pigs and to determine build up of debris inside the line and for interface/density detection.

ID5001P ONSHORE AND TOPSIDE (GAS, MULTIPHASE AND LIQUID)

ID5001P listens for sounds of the pigs approach and passage in the pipeline, therefore transmitters or magnets are not required. This unit is suitable for gas and liquid pipelines and is ATEX and IECEx certified.

ID5002P ONSHORE AND TOPSIDE

The ID5002P has the same features as the ID5001 with the additional design and certification for ATEX and IECEx for intrinsically safe requirements, and is suitable for liquid, gas and multiphase lines.



NON-INTRUSIVE PIG SIGNALLERS FEATURES AND BENEFITS

- Up to 100 logged events
- Graphical display and high brightness LED
- Events can be viewed locally and reviewed later
- The main housing can be mounted remotely for use on buried pipelines or where access is limited
- Single control button and intuitive menu system
- Versatile and minimal set up required
- Time and cost savings
- Many options for remote communication



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BRILLIANT ENGINEERING IS THE DNA OF THE IK-GROUP //

We make your operations run safely and profitably. Onshore and Offshore, Topside and Subsea. With the clever use of proven technology, we have solved some of our industry's most complex challenges.



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