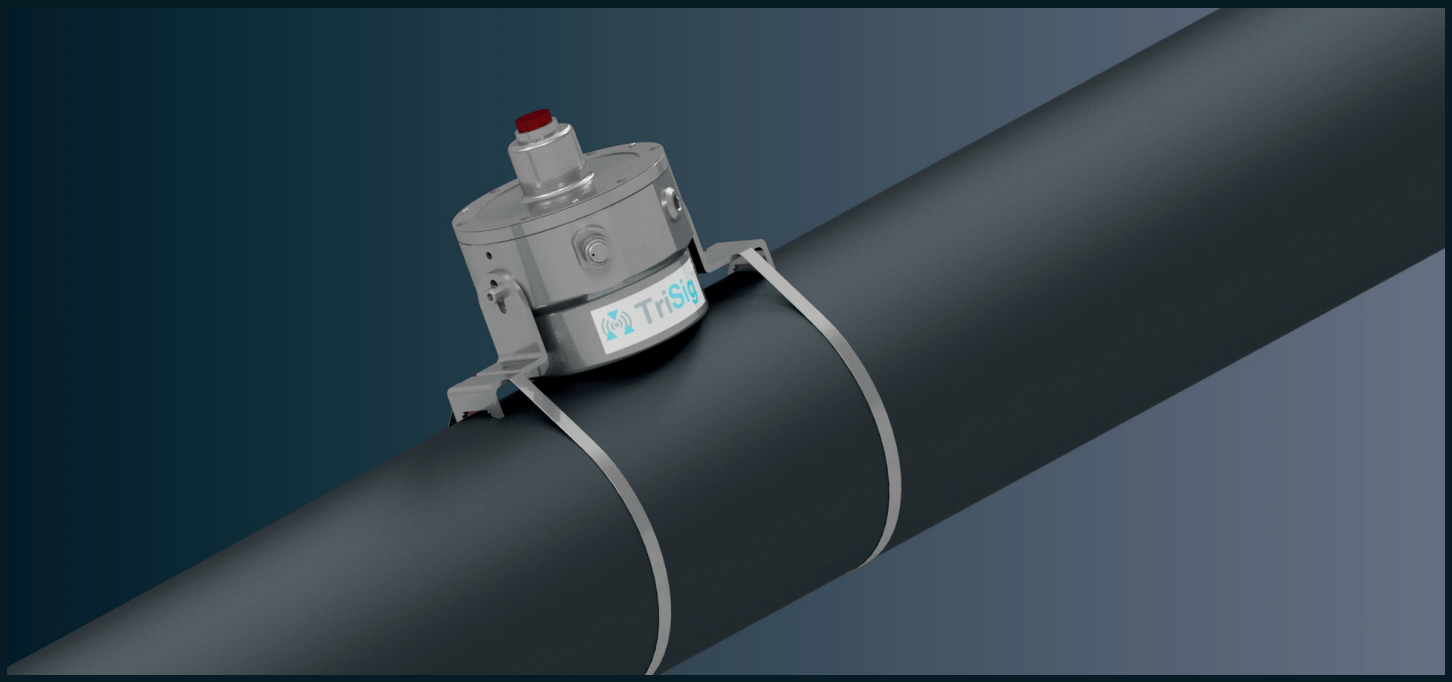
PRODUCT

TriSig™



The TriSig™ is an ATEX and IECEx compliant, non-intrusive, PSU powered pig signaller which quickly and accurately detects, signals and logs the passage of pigs at critical points along a pipeline both onshore and offshore.

Key Benefits

- Removes any uncertainty over confirmation of pig passage.
- Suitable for all pig types – acoustic and magnetic detection.
- Quick and easy installation using ratchet strap or stainless steel banding.
- Suitable for all pipelines.
- Seamlessly integrates with your control systems via RS485 Modbus RTU bi-directional communication, enabling notifications, error reporting, pig passage data retrieval, and signaller configuration. The device is also HART capable.
- Dedicated software enables real-time monitoring and instant readings via Bluetooth connectivity to your phone, tablet or PC, making debugging and testing more efficient while providing a deeper understanding of the theory of operation.

Interested in hearing more about this, or other applications?
Contact our IK Trax specialists at:

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T: +44 (0)1224 714714
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PRODUCT

TriSig™

The TriSig™ provides three detection options: magnetic, acoustic and electromagnetic. The acoustic option monitors the vibrational and acoustic noise produced as a pig moves through a pipeline. Magnetic sensors detect changes in the magnetic field generated as a pig fitted with magnets moves through a pipeline as well as detecting an electromagnetic pulse. The unit then processes the emissions to identify when a pig passes. Events are signalled as they occur via a number of communication methods including a high brightness LED positioned on top of the signaller, Bluetooth and RS485 Modbus RTU bi-directional communication. The unit logs the time and date of up to 99 events. Logged events can be viewed remotely over several optional interfaces.

The TriSig™ comprises two main modules: the housing and the removable LED endcap. The housing contains the majority of the electronics, including the control button and the magnetic and acoustic sensors, and can be mounted directly to the pipeline using mounting plates or installed on a post where required. The mounting plates can be quickly and securely attached to the pipeline using ratchet straps or stainless steel banding.

PRODUCT SPECIFICATION

External Supply	24.0 VDC <2.0 W
Entries	3 x M20x1.5
Enclosure Surface Temperature Range:	-40°C (-40°F) to +85°C (+185°F) Note 1
Maximum Pipeline Surface Temperature	+150° (+302°F) Note 2
Typical Minimum Pig Speed	0.1 m/s Note 3

MATERIALS & DIMENSIONS

Housing Material	316L Stainless Steel
Height	194 mm
Width	177 mm
Width, including mounting plates	302 mm
Weight in 316L Stainless Steel (Signaller only)	8 kg

CERTIFICATION

ATEX/UKEX/IECEx Code	Ex db IIB T4 (Pending)
NAMUR	Compliant
HART	Compliant
Ingress Protection (Enclosure)	IP66

STANDARD OUTPUTS

DPDT Relay (Volt Free Contacts)	2A @ 30 VDC
Current Loop	4-20 mA Note 4
Serial Data Interface	RS485 MODBUS RTU
Bluetooth	Class 4 (BLE)

OPTIONAL

Mounting Configuration	Pipeline mount or post mount
Remote Sensors	Available
LED Indicator Light	Available
External Lamp / Remote Indicator	Available







Note 1 Maximum surface temperature of +85°C applies at a maximum ambient temperature (Ta) of +70°C.

Note 2 Maximum allowable pipeline surface temperature depends on ambient air temperature and mounting configuration.

Note 3 Minimum pig speed depends on pig type, selected sensor, pipeline configuration and installation position.

Note 4 4-Wire

Please note specification may be subject to change.

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