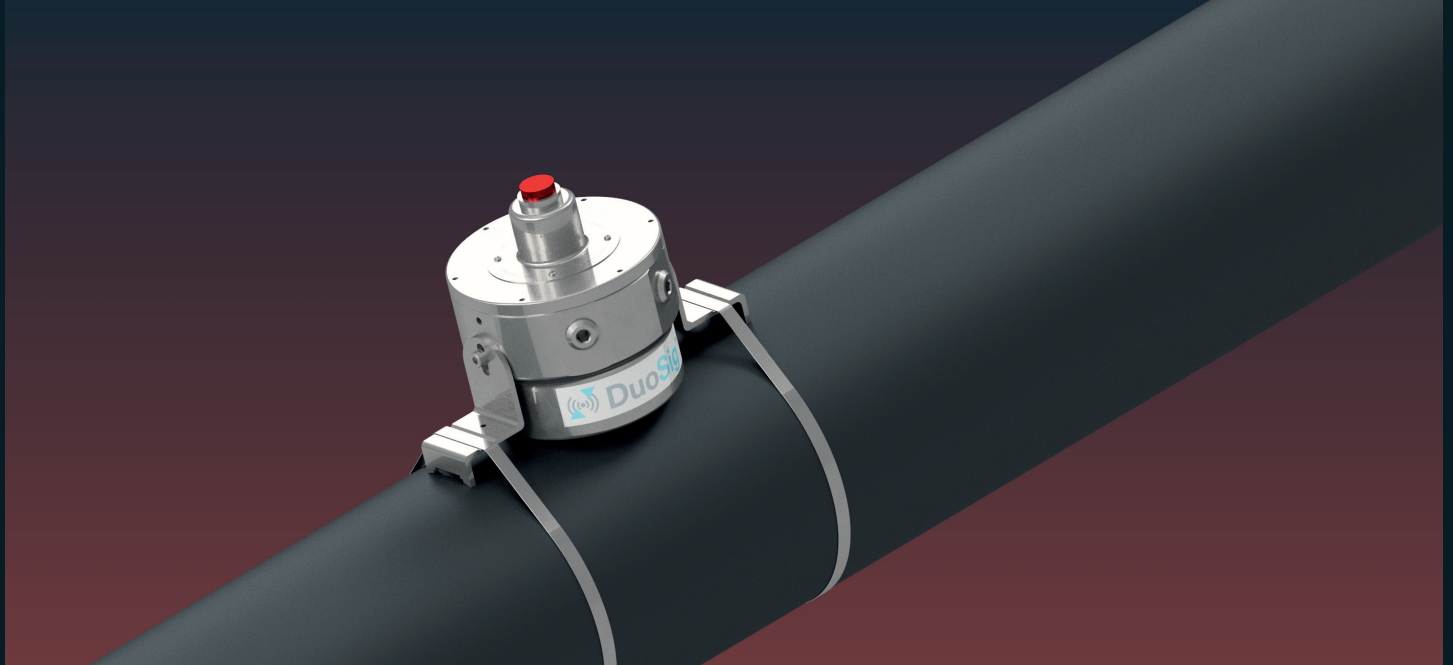




DuoSig™

Magnetic • Acoustic • Verified

Ultrasonic (Passive)



The DuoSig™ 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 gas and liquid 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.



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Magnetic • Acoustic • Verified

The DuoSig™ provides two detection options: magnetic and acoustic. The acoustic option monitors the vibrational and acoustic noise produced as a pig moves through a pipeline. The magnetic option detects changes in the magnetic field generated as a pig fitted with magnets moves through a pipeline. The unit then processes the emissions to identify when a pig passes. Events are signalled as they occur via a high brightness LED positioned on top of the signaller. The unit logs the time and date of up to 99 events. Logged events can be viewed remotely over several optional interfaces.

The DuoSig™ 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

Entries

Enclosure Temperature Range (External Supply)

Acoustic sensor Temperature Range

Magnetic sensor Temperature Range

Maximum Pipeline Surface Temperature

Typical Minimum Pig Speed

MATERIALS & DIMENSIONS

Housing Material

Height

Width

Width, including mounting plates

Weight in 316L Stainless Steel (Signaller only)

CERTIFICATION

ATEX/UKEX/IECEx Code

NAMUR

HART

Ingress Protection (Enclosure)

STANDARD OUTPUTS

DPDT Relay (Volt Free Contacts)

Current Loop

Serial Data Interface

Bluetooth

OPTIONAL

Mounting Configuration

Remote Sensors

LED Indicator Light

External Lamp / Remote Indicator

24.0 VDC <2.0 W

3 x M20x1.5

-40°C to +85°C (-40°F to +185°F)

-55°C to +110°C (-67°F to +230°F)

-40°C to +105°C (-40°F to +221°F)

+150° (+302°F) Note 1

0.1 m/s Note 2

316L Stainless Steel

194 mm

177 mm

302 mm

8 kg

Ex db IIC T4 (Pending)

Compliant

Compliant

IP66

2A @ 30 VDC

4-20 mA Note 3

RS485 MODBUS RTU

Class 4 (BLE)

Pipeline mount or post mount

Available

Available

Available

Note 1 Maximum allowable pipeline surface temperature depends on ambient air temperature and mounting configuration.

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

Note 3 4-Wire

Please note specification may be subject to change.



Interested in hearing more about
this, or other applications?
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