4003 MAGSIG® NON-INTRUSIVE SIGNALLER //

IK GROUP®

THE ONLINE 4003 MAGSIG® IS A FULLY ATEX, IECEX AND UL/CSA CLASS 1 DIVISION 1 CERTIFIED, NON-INTRUSIVE PIG SIGNALLER WHICH QUICKLY AND ACCURATELY DETECTS, SIGNALS AND LOGS THE PASSAGE OF MAGNETIC PIGS AT CRITICAL POINTS ALONG A PIPELINE BOTH ON LAND AND OFFSHORE.

Key Benefits:

- Use of the 4003 MAGSIG® can result in time and therefore cost savings.

- Quick and easy installation using ratchet straps or stainless steel banding.

- Minimal set up required ensuring time is not lost setting up multiple parameters.

- Complementary Bluetooth Application displays pig passage data and allows for parameters to be modified from a handheld device, providing operational flexibility.

- Versatile - can be installed on any pipeline up to 60" diameter with wall thickness up to 50mm, carrying any medium and with pigs running at varying speeds.

- No location restrictions - can be located on major barrel and magnetic sensor can be supplied on a cable up to 10m long for use with buried pipelines or where access is limited.

- Unit can be installed close to receiver door, allowing for confirmation that pig has passed isolation valve and easy pig recovery.

- Complete skid mounted systems for remote site locations are available inclusive of Solar Power recharging systems and Satellite communication

INNOVATIVE KNOW-HOW

PRODUCT

High intensity LED indicators and the internal electronic display signal pig passage locally. For remote signalling, DPDT (VFC) dry relay, 4-20mA, LoRaWAN and satellite communication options are available. Bluetooth and RS485 MODBUS permits two-way communication for remote programming and data download. The unit logs the time and date of up to 99 events in local non-volatile memory. A removable SD card enables detailed history of sensor data over time. The user can switch the unit ON and OFF as well as modify several settings locally by using a single control button and easy to use menu system.

Pipeline mount and pole/post mount options are available. For extreme direct sunlight environments, sunshades can be provided.

POWER//

External Power	+21.6VDC to +26.4VDC, <1.0W
Battery Type (Alkaline)	Industrial cell 4x Alkaline 1.5V 18Ah D Cells
Battery Life (Alkaline)	1 year (LISTENING/LOW POWER MODE at +20°C) Note1
Battery Type (Lithium)	2x Lithium Thionyl Chloride 3.6V 17Ah D Cells
Battery Life (Lithium)	1 year (LISTENING/LOW POWER MODE at +20°C) Note 1

STANDARD OUTPUTS//

ISA Type II 2 wire current loop output	>18mA (Detection)
DPDT Relay Output (Volt Free Contacts)	2A @ 30VDC/0.5A @ 125VAC
MODBUS	RTU (RS485)
BLUETOOTH	Class 4 (BLE)

TEMPERATURE RANGE//

External Supply (no cells fitted)	-50°C to +85°C (-58°F to +185°F)
Alkaline 1.5V 18Ah Cells	-20°C to +50°C (-4°F to +122°F)
Lithium Thionyl Chloride Cells	-40°C to +80°C (-40°F to +176°F)

ENCLOSURE//

Enclosure Rating	NEMA 4X/NEMA 7
Entries (other options available)	2x 3/4" NPT
Weight in Aluminium	3.5kg (8lbs)
Weight in 316L Stainless Steel	5.5kg (12lbs)
Length (including mounting plate)	240mm (9.4")
Width (including mounting plate)	192mm (7.6")
Height (including mounting plate)	165mm (6.5")

CERTIFICATIONS//

ATEX (Internal Sensor)	II 2 (1) G Ex db [ia Ga] IIC T4...T6 Gb
ATEX (External Sensor)	II 1/2 (1) G Ex db ia [ia Ga] IIC T4...T6 Ga/Gb
EC Type Examination Certificate Number	SIRA18ATEX1244X
IECEx Certificate Number	SIR 18.0059X
EMC Certificate Number	5024TC1
CSA/CSA-US	CSA18CA70166719

Note 1 In Listening/Low Power mode at +20°C with Bluetooth & LEDs disabled. Dependent on initial battery capacity.

INNOVATIVE KNOW-HOW