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3015 Series EM Transmitter

The 3015 transmitter is an ATEX rated electromagnetic transmitter that can be used for pig tracking and locating functions, intended for use in pipeline diameters above 10". The transmitters operate effectively in every type of pipeline, i.e. top-side, buried, gas or liquid and in pipeline bundles where acoustic transmitters are either less effective or ineffective.

Key benefits:

- Exact location of the transmitter can be determined to within a few cm by detecting the inherent EM null spot of the transmitter.
- Battery life can be extended by switching between two pre-configured settings or with a Pressure Switch endcap.
- Dual rate endcap allows unit to be interfaced with an external piece of equipment such as an OEL Smart Gauge Plate to confirm the integrity of a pipeline.
- The 3015 can be installed inside smaller lines than would traditionally be the case when pig discs are fitted directly to the transmitter. This dramatically increases the received EM signal as it no longer needs to propagate through the carbon steel pig body in addition to the pipeline.

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The standard transmission frequency is 22Hz. Once the approximate location of the transmitter has been established using an EM receiver with the antenna held parallel to the pipeline/transmitter, the exact location can be determined to within a few cm by orientating the antenna perpendicular to the pipe and detecting the inherent EM null spot of the transmitter.

The standard 3015X version has been designed to be fully compliant with ATEX Zone 1 operation.

Specification:

Standard Lithium Battery Type	5x Electrochem 3B0035-TC Primary Lithium D Cell
Standard Alkaline Battery Type	5x Duracell Industrial ID1300 Alkaline D Cells
Battery life at +20°C in air	5-85 days dependent on battery type and pulse rate
Standard Frequency	22Hz
Temperature Range (Alk)	-20°C to +54°C (-4°F to 130°F)
Temperature Range (Lit)	-20°C to +80°C (-4°F to 176°F)
Max Operating Pressure	500bar (7,252 Psi)
Length	369mm (14.5")
Diameter	77mm (3")
Weight	7kg (15.5lbs)
Housing Material	ASTM B348 Grade 5 Titanium Ti-6Al-4V
Endcap Material	Alloy Bronze CA104 EN 12163
Standard signal at 1m with OEL reference antenna at + 20°C in air	624mVpp



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