PRODUCT

EMTx40 Series EM Transmitter //

THE EMTX40 TRANSMITTER IS AN ELECTROMAGNETIC TRANSMITTER THAT CAN BE USED FOR PIG TRACKING AND LOCATING FUNCTIONS, INTENDED FOR USE IN PIPELINE DIAMETERS OF 10" AND ABOVE. 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.
- Self-regulation ensures the signal strenth is constant over the battery's lifetime.
- Several activation methods designed to conserve battery life when deployed in advance of pigging operations.
- Bluetooth connection and OEL's EMTx CONFIG Application allows transmitter parameters such as pulse rate, pulse width and power output to be modified by the user providing flexibility to manage signal strength and battery requirements.
- Mounting holes are built in to aid centralising the transmitter within a pig body, eliminating the need for a transmitter carrier. This dramatically increases the received EM signal.

INNOVATIVE KNOW-HOW

Online Electronics
T: +44 (0) 1224 714714
E: oel-sales@ik-worldwide.com

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The standard transmission frequency is 22Hz however the frequency is configurable between 10Hz and 30Hz. 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 EMTx40 series offers several activation methods designed to conserve battery life when deployed in advance of pigging operations including bleedscrew, pressure switch and delayed activation. These methods may be used individually or in combination. Contact Online Electronics Ltd to discuss your individual requirements.

The received signal strength is dependent on several factors and frequency, signal strength and transmission pattern can be configured to achieve the desired balance between detectability and battery life.

PRODUCT SPECIFICATION//

Battery Type (Alkaline)	5x Duracell Industrial ID1300 Alkaline D Cells
Battery Type (Lithium)	5x SAFT LS33600 Lithium D Cells
Battery Life at + 5°C in air	5-85 days dependent on battery type and pulse rate
Frequency Range	10Hz-30Hz
Temperature Range (Alkaline)	-20°C to + 54°C (-4°F to + 129.2°F)
Temperature Range (Lithium)	-40°C to + 80°C (-40°F to + 176°F)
External Pressure Rating	500bar (7252Psi)
Standard Signal at 1m	650mVpp (with OEL reference antenna in air)

MATERIALS & DIMENSIONS//

Housing Material	ASTM B348 Grade 5 Titanium Ti-6Al-4V
Endcap Material	Alloy Bronze CA 104 EN 12163
O-Ring Material	NBR70
Length	374mm (14.7")
Diameter	76.8mm (3.02")
Transmitter Weight (including batteries)	7kg (15.5lbs)

CERTIFICATION//

ATEX Notified Body Number	2812
ATEX Type Examination Number	ERO23ATEX0011X
ATEX Code	Ex II 2 G Ex db IIB+H2 T6...T5 Gb
IECEx Cert No	IECEx EMT 23.0008X
UKEx Cert No	EMA23UKEX0026X

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