

THE EMTX50 HP TRANSMITTER IS A HIGH-PRESSURE ELECTROMAGNETIC TRANSMITTER THAT CAN BE USED FOR PIG TRACKING AND LOCATING FUNCTIONS, INTENDED FOR USE IN PIPELINE DIAMETERS OF AROUND 16" 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.



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PRODUCT

EMTx50 High Pressure EM Transmitter//



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 antennal held parallel to the pipeline/transmitter, the exact location can be determined to within a few cm by orientating the antennal perpendicular to the pipe and detecting the inherent EM null spot of the transmitter.

The EMTx50 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//

Batteries Alkaline D Cell Pack

Battery Life at + 5°C in air Up to 365 days dependent on battery type and pulse

Standard Frequency 10Hz to 30Hz

Temperature Range -20°C to +50°C (-4°F to 122°F)

External Pressure Rating 500bar (7251Psi)

Standard signal at 1m 1250mVpp (with OEL reference antenna in air)

MATERIALS & DIMENSIONS///

Housing Material ASTM B348 Grade 5 Titanium Ti-6Al-4V

Endcap Material UNS S32750 Super Duplex Stainless Steel

O-Ring Material NBR70

Length 548mm (21.6")

Diameter 132.4mm (5.2")

Transmitter weight (including batteries) 25kg (55.1lbs)

