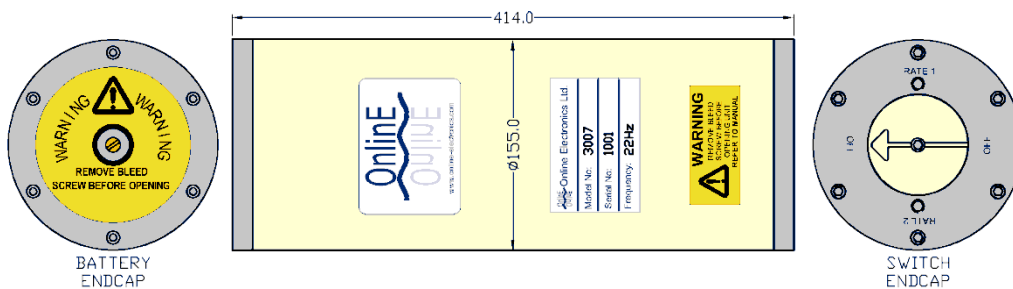


3007 SERIES EM TRANSMITTER

The 3007 are a series of electromagnetic transmitters that can be used for pig tracking and locating functions, intended for use in pipeline diameters above 16" 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.

The transmission pulse rate can be switched between two pre-configured settings to extend the battery life of the unit. Please contact OEL to discuss the most effective pulse rate configurations.

The standard transmission frequency is 22Hz. Once the approximate location of the transmitter has been established using an EM receiver system with the antenna held parallel to the pipeline/transmitter, the exact location of 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 3007 is available with a number of different options to suit project specific requirements. Please consult OEL to discuss the most effective configuration.

- Pressure Switch – This activates the unit when the external pressure exceeds a specified pressure level, thus allowing the transmitter to conserve its battery life when it is installed in a pig for an extended time prior to launch.
- Dual Rate – This allows the transmitter to be interfaced with an external piece of equipment, which will determine the pulse rate of the transmitter. E.g. The transmitter can be interfaced with an OEL Smart Gauge Plate and the pulse rate will change to a faster rate if the gauge plate detects damage to the pipeline.
- Delay Activation - The 3007 has a configurable time delay which commences when the unit is switched on, after the time delay has expired the unit will activate.
- Light Weight - , a lighter weight, smaller diameter version is available that allows for installation in smaller pigs (>12") with the same power output making it suitable for smaller pipelines with a heavy wall thickness
- High Pressure – Rated to 300 bar, to allow use in high pressure applications

GENERAL:

Battery type 31.5V Alkaline pack BATT-11207
Lifetime in continuous mode at 5°C in air 21 days
Lifetime pulsing 0.4sec ON / 0.6 sec OFF at 5°C in air..... 51 days
Lifetime pulsing 0.4sec ON / 1.6 sec OFF at 5°C in air..... 106 days
Lifetime pulsing 0.4sec ON / 2.6 sec OFF at 5°C in air..... 144 days
Lifetime pulsing 0.4sec ON / 3.6 sec OFF at 5°C in air..... 200 days
Standard signal at 1m with OEL reference antenna at +20°C in air..... 1Vpp
Operating temperature range..... 0°C to +70°C (+32°F to +158°F)
External pressure rating200bar (290Psi)
Weight in air17.5kg (38.5lbs)

MATERIALS:

Housing material WHITE ACETAL
Endcap material316 STAINLESS STEEL EN 1.4401
Bleedscrew material.....ALLOY BRONZE CA104 EN 12163
Endcap o-rings 2x BS 50-245 NBR70
Bleedscrew o-ring..... 1x BS 50-008 NBR70

PRESSURE SWITCH / PRESSURE SWITCH LATCH VARIATIONS:

Weight in air17.8kg (39.2lbs)