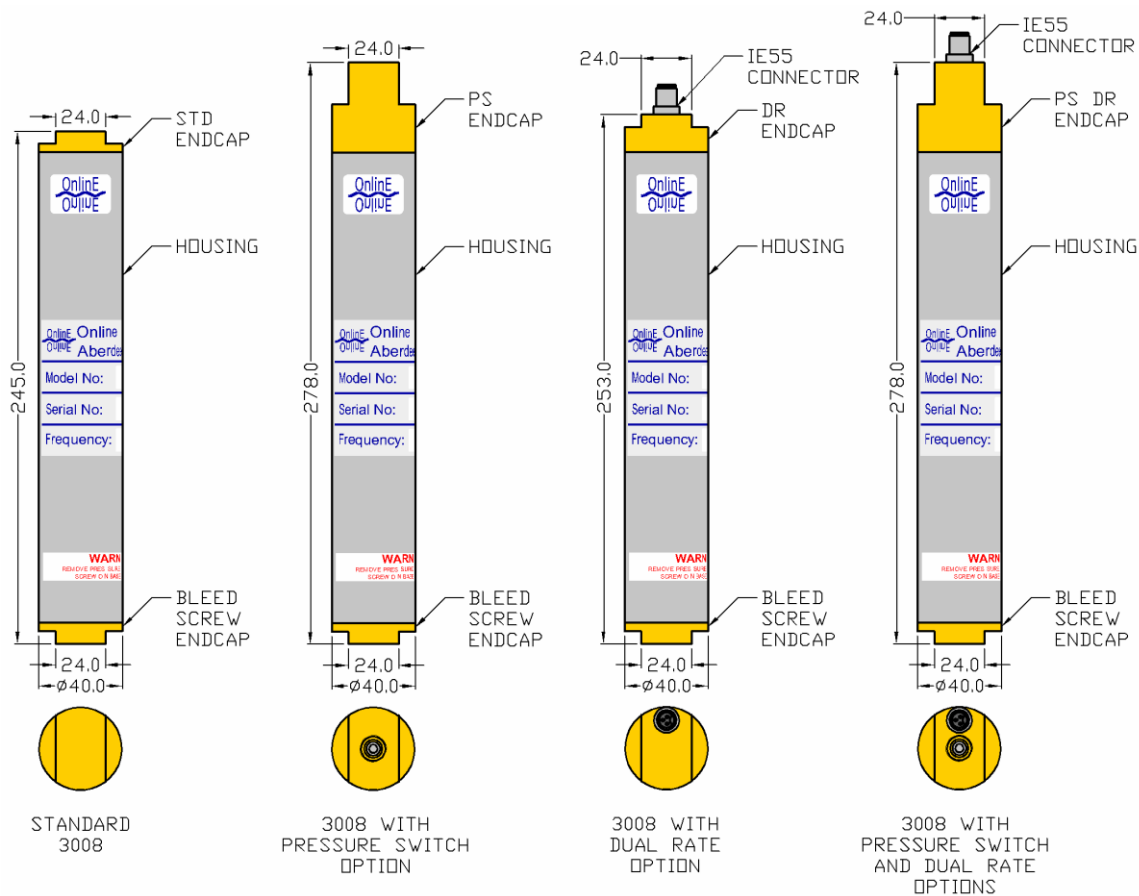


# 3008 SERIES EM TRANSMITTERS

The 3008 transmitter is an electromagnetic transmitter that can be used for pig tracking and locating functions, intended for use in pipeline diameters of 8" to 10", larger transmitters are preferred in larger diameter lines to enhance detection capability. The transmitter operates effectively in all pipe types, ie top-side, buried, gas or liquid and in pipeline bundles where acoustic transmitters are either less effective or ineffective.

Transmission pulse rate can be adjusted between two settings to extend battery life by means of a switch. 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 3008 can be fitted with a variety of endcaps either during manufacture or in some cases retrospectively to suit project specific requirements. Please consult OEL to discuss the most effective configuration.

- Pressure Switch Endcap – This activates the unit when the external pressure exceeds a specified ON threshold, so allowing the transmitter to be installed into a pig in advance of launcher deployment so conserving the battery life of the unit.
- Dual Rate – This allows the transmitter to be interfaced with an external piece of equipment, for example an OEL Smart Gauge Plate to control the transmission mode so that the pulse rate will change when the gauge plate detects damage to the pipeline.

**SPECIFICATIONS:**

**BATTERY LIFETIMES:**

Battery lifetime in continuous transmission at +5°C..... 7 days  
 Battery lifetime with a 1s pulse repetition rate (0.4s ON / 0.6s OFF) at +5°C..... 15 days  
 Battery lifetime with a 2s pulse repetition rate (0.4s ON / 1.6s OFF) at +5°C..... 30 days  
 Battery lifetime with a 3s pulse repetition rate (0.4s ON / 2.6s OFF) at +5°C..... 41 days  
 Battery lifetime with a 4s pulse repetition rate (0.4s ON / 3.6s OFF) at +5°C..... 52 days  
 Battery lifetime with a 5s pulse repetition rate (0.4s ON / 4.6s OFF) at +5°C..... 62 days

**GENERAL:**

Standard Battery Type ..... Alkaline C DURACELL ID1500 CELLS  
 Standard signal at 1m with OEL reference antenna at +20°C in air .....85mVpp  
 Standard frequency ..... 22Hz  
 Temperature range..... -20°C to +51°C (-4°F to 124°F)  
 Max Operating Pressure .....300bar (4,531 Psi)

**MATERIALS:**

Housing material ..... 316L Stainless Steel  
 Endcap material .....ALLOY BRONZE CA104 EN 12163  
 O-ring material .....NBR70  
 Transmitter weight (dependent on configuration) ..... 1.3kg-1.4kg (2.9 lbs to 3.1 lbs)



Approved  
*[Signature]*

Date APPROVED  
 ca , 13:25:49, 08/08/2017

