



## **SPECIFICATIONS FOR CONTINUOUS RF ADMITTANCE LEVEL TRANSMITTERS**

The RF ADMITTANCE type continuous level transmitter shall produce an output in the 4-20 mA range that is proportional to level. It shall be capable of making the measurement independent of changes in material density and not be affected by the presence of material clinging to the sensing element. The measurement shall be free from the effects of changes in temperature, density or acoustic noise in the vapor space above the level.

The level measuring system shall be intrinsically safe and suitable for installation in Division 1 hazardous areas when supplied from an approved power supply. The electronic unit shall be mounted in an approved explosion-proof enclosure and be capable of being located integrally on the the rear of the sensing element OR remotely from the sensor up to 150 feet (50 meters) away.

The electronic unit shall be capable of operating in harsh environments with temperature ranges from -40°F to 167°F (-40°C to 75°C) and be protected from corrosion with a NEMA 4X rated finish. The internal circuit boards shall be protected by a fungus resistant (tropicalized) coating.

For standardization, the same electronic unit shall be applicable for liquids, slurries, granulars and interfaces. Zero and Span adjustments shall be non-interacting.

The electronic unit shall have provision for field changeable failsafe condition and field changeable phasing in the event the measurement requires such changes to optimize the level reading. The reading shall be free from effects of Radio Frequency Interference (RFI) when plant radios (walkie-talkies) are in the vicinity of the level transmitter. Further, the measurement shall be free from harmful effects of static electricity on the sensing element with discharges up to 10 Amperes being tolerated without damage. There shall be an optional 100 Amp spark protector available, and required for light hydrocarbons, pellets and powders that can generate significant static chargers. Adjustable time delay (signal dampening) shall be included with the electronic unit.

The transmitter shall be a Drexelbrook Series 508-45, 46, 47 or 49 Universal IITM RF Admittance Level Transmitter, or engineer approved equal.



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