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BID SPECIFICATIONS FOR SMART RF ADMITTANCE 2- WIRE LEVEL TRANSMITTERS

The 2 WIRE SMART RF ADMITTANCE type continuous level transmitter shall produce an output of 4-20 mA, and Honeywell R100/200 and/or DE (Digitally Enhanced) protocol that is proportional to level (PV1). 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 output can also display a second process variable (PV2) of volume or weight proportional to level from built in standard strapping tables or user defined tables. Calibration can be accomplished from a Smart Field Calibrator (SFC) connected anywhere in the 2-wire loop. Calibration may be entered in users choice of engineering units and by entering any two level points not necessarily zero and full. There shall be no easily accessible controls that unauthorized persons could tamper with. The output shall be capable of a Honeywell DE protocol connection to a TDC3000 and certified by Honeywell as compatible.

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 optionally mounted in an approved explosion-proof enclosure and be capable of being located remotely from the sensor up to 150 feet (45 meters) away.

The electronic unit shall be capable of operating in harsh environments with temperature ranges from -40°F to 185°F (-40°C to 85°C) and be protected from corrosion with a NEMA 4X rated housing. The internal circuit boards shall be protected by a fungus resistant (tropicalized) coating.

The electronic unit shall be a single device capable of use over a wide range of level applications by having a capacitance tuning range of 1 to 15,000 Pf . The electronic unit shall have provision for field changeable fail-safe (mode), damping, 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. The transmitter shall be a Drexelbrook Series 509-65,66, 67 or 69 SLT™ SmartLevel™ RF Admittance Level Transmitter.



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