



LEVEL

Guided Wave Radar Level Transmitter

Tek-Flex 4100A



1 FEATURES

- Revolutionary TDR technology
- Auto calibration to any dielectric
- Precise continuous level measurement
- Measures liquids, slurries, and solids
- Highly robust measurement due to the 4-wire design
- Signal analysis, and constant disturbance signal suppression
- Pre-calibrated from factory for easy installation
- High temperature applications
- Measures up to 65 feet
- Optional NEMA 7 enclosure for Class 1 Div 1 areas

3 APPLICATIONS

- Iron and steel industry
- Oil and Gas
- Power generation industry
- Pulp and paper industry
- Chemical industry

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2 SPECIFICATION

Signal output	4 mA to 20 mA
Fail safe output	User selectable to 3.8 mA, 4 mA, 20 mA, 20.2 mA
Operating voltage	12-30 VDC (residual ripple no greater than 100 mV)
Power consumption	<3W @ 24 VDC
Communications	RS485 modbus
Measurement range	Upto 65' with minimum dielectric constant of 0.3
Repeatability	±0.02" (0.5mm)
Max. operating temperature	Electronics: -40 °F to 158 °F (-40 to 70 °C) Process/Probe: -40 °F to 398 °F (-40 °C to 203 °C)
Max. operating pressure	-14.50 PSI to 580 PSI
Accuracy	±0.039" (1mm) or 0.02% of measured distance, whichever is greatest.
Resolution	0.0008"
Signal wiring	Recommended signal output and communications output is twisted shielded pairs, 20-18 AWG
Probe type/diameter	Rod probe: 316 stainless steel, 0.25" diameter Wire cable probe: 316 stainless steel, 0.195" diameter Weighted assembly: 0.75" diameter
Tensile load	4,270 lbs
Enclosure	NEMA 6: Coated epoxy aluminum with IP67 sealing NEMA 7: Class 1, Group D Class 2, Group E, F and G Class 3, DIV. 1 and 2
Cable entries	2 ½" NPT conduit entries