



LEVEL



Technology Solutions

Explosion-Proof Guided Wave Radar Level Transmitter

Tek-Flex 4100A



1 FEATURES

- Continuous level measurement in process or storage tanks, reactors, and pressure vessels.
- Precisely measures liquids, slurries, and solids level.
- Robust design.
- Highly accurate and reliable.
- High-end guided radar.
- Measuring distance up to 60m.
- 2-wire guided radar level transmitter based on the Time Domain Reflectometry (TDR) technology.
- Cost-effective and maintenance-free.
- Rotatable and removable transmitter.
- Stainless Steel housing for corrosive environment.
- Suitable for liquid storage and process applications.
- Pre-calibrated from factory for easy installation.
- Programmable fail safe mode.

3 APPLICATIONS

- Oil and Gas Industries.
- Chemical Industries.
- Petrochemical Industries.
- Metal Industries.
- Minerals and Mining Industries.

CONTACT US

796 Tek Drive, Crystal Lake, IL 60014 USA

+1 847-857-6076

Email: tektrol@tek-trol.com

www.tek-trol.com

2 SPECIFICATION

Accuracy	Standard: • $\pm 0.08"$ ($\pm 2\text{mm}$) (distance $\leq 10\text{m}$ / 33ft) • $\pm 0.02\%$ of measured distance (distance $> 10\text{m}$ / 33ft) Interface: • $\pm 0.2"$ ($\pm 5\text{mm}$) (distance $\leq 10\text{m}$ / 33ft) • $\pm 0.05\%$ of measured distance (distance $> 10\text{m}$ / 33ft)
Probe Options	Single Rod ($\text{Ø}1/4"$ ($\text{Ø}8\text{mm}$)): Single-Piece or Segmented Type; Single Rod ($\text{Ø}3/8"$ ($\text{Ø}10\text{mm}$)): Single-piece fully PTFE coated; Single Cable ($\text{Ø}1/8"$ ($\text{Ø}4\text{mm}$)))
Measuring Range	Single-Piece or Single-piece fully PTFE coated: 3.28 to 13.12ft (0.6 to 4m); Segmented: 3.28 to 19.69ft (0.6 to 6m); Single Cable: 3.28 to 196.85ft (1 to 60m)
Resolution	0.004" (0.1mm)
Repeatability	$\pm 0.04"$ ($\pm 1\text{mm}$)
Temperature Limits	+59 to +77°F (+15 to +25°C)
Operating Temperature	-58 to +482°F (-50 to +250°C); -58 to +302°F (-50 to 150°C)
Ambient Temperature	-40 to +176°F (-40 to +80°C)
Storage Temperature	-58 to +185°F (-50 to +85°C)
Pressure Limits	Single fully PTFE-coated: -14.5 to 580psig (-1 to 40barg); Single ceramic process seal system: -14.5 to 1450psig (-1 to 100barg);
Humidity	60% \pm 15%
Viscosity	10000mPa·s / 10000cP
Dielectric Constant	≥ 1.6 in direct mode (interface: $\epsilon_r(\text{interface}) \gg \epsilon_r(\text{level})2$)
Material	316L SS; Hastelloy C; PTFE
Process Connection	Thread, Flange
Output Signal	4 to 20mA or HART output
Power Supply	11.5 to 30VDC; 13.5 to 34VDC
Display	LCD display (128 x 64 pixels in 8-step greyscale with 4-button keypad)
Protection Class	IP68; IP66
Enclosure	NEMA 4x
Approvals	CE, Class I Div 1