LEVEL

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: • ±0.08" (±2mm) (distance ≤ 10m / 33ft) • ±0.02% of measured distance (distance > 10m / 33ft) Interface: • ±0.2" (±5mm) (distance ≤ 10m / 33ft) • ±0.05% of measured distance (distance > 10m/ 33ft)
Probe Options	Single Rod (Ø1/4" (Ø8mm)): Single-Piece or Segmented Type; Single Rod (Ø3/8" (Ø10mm)): Single-piece fully PTFE coated; Single Cable (Ø1/8" (Ø4mm))
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	±0.04" (±1mm)
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% ±15%
Viscosity	10000mPa·s / 10000cP
Dielectric Constant	≥1.6 in direct mode (interface: ε_r(interface) >> ε_r (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 × 64 pixels in 8-step greyscale with 4-button keypad)
Protection Class	IP68; IP66
Enclosure	NEMA 4x
Approvals	cQPSus XP-IS/DIP-IS CL I DIV 1 GP A-G + CL I Z1 AEx db ia/Ex db ia IIC T6...T' Gb + Z21 AEx ia tb/Ex ia tb IIIC T85°C...T'°C Db