



LEVEL



Technology Solutions



TWO-WIRE LOOP-POWERED OEM TDR LEVEL TRANSMITTER

Tek-Flex 4100B

1 FEATURES

- Suitable for continuous level measurement of liquids and solids
- Suitable for process temperatures up to 100 °C /212 °F and pressures up to 16 barg/232 psig
- Measuring range up to 787"/65.6 ft(liquids) and 394"/32.8 ft (solids)
- Stainless steel probes and process connections are made of stainless steel
- 2-wire loop powered level meter
- Easy menu navigation without opening the housing

3 APPLICATIONS

- Mining
- Agriculture
- Cement industry
- Pharmaceutical
- Chemical industry

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2 SPECIFICATION

Application	Level and volume measurement of liquids and pastes.
Measuring Principle	TDR (Time Domain Reflectometry)
Construction	Measuring probe attached directly to a signal converter
Ambient Temperature	-40 to +80 °C /-40 to +176 °F
Storage temperature	-50 to +85 °C /-60 to +185 °F
Protection category	IP 66/67
Housing	Polyester-coated aluminum
Cable entry	½ NPT (without cable gland)
Power supply (terminals)	14 to 30 VDC
Measured Variables	Time between the emitted and received signal
Output signal	4 to 20 mA
User Interface options	LCD display (128 × 64 pixels in 8-step greyscale with 4-button keypad)
Ambient Temperature	-40 to +176°F / (-40 to +80°C)
Pressure	-14.5 to 232 psig/-1 to 16 barg
Current output load	$R_L (\Omega) \leq ((U_{ext} - 14 V)/22 \text{ mA})$
Cable entry capacity (terminals)	0.5 to 1.5 mm ²
Resolution	± 1µA
Error signal options	High : 22 mA; Low: 3.6 mA Hold (frozen value)
Probe	Stainless steel (1.4404/316 SS)
Gasket (process seal)	EPDM
Process connection	Stainless steel (1.4404/316 SS)
Thread	¾" mNPT, 1" mNPT. 1.5" mNPT
Viscosity	10000 mPa.s
Repeatability	±2 mm / ±0.08"