

TEK-FLEX 4100C

Programmable Two-Wire TDR Level Transmitter With Hart & Display





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Introduction

The Tek-Flex 4100C Programmable Two-Wire TDR Level Transmitter With Hart & Display measures liquid in environments where there are volatile matter or vapors. The 4100C is able to adapt to environments with complex processes and conditions.

Measuring Principle

High frequency microwave pulses travels along the detecting component (steel rope or rod) and reflects when reaching the product surface. The time from emission to reception is proportional to the distance between the surface and the reference plane on the instrument.



Features

- 2 wire-loop-powered level meter with HART
- Measuring range up to 60'
- Local display and push button programming
- Probes and process connections are made of stainless steel
- For process temperature up to 302°F and pressure up to 580 psig
- Not affected foam, vapor or mist

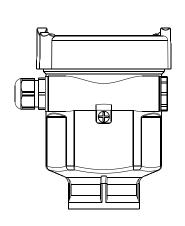
Applications

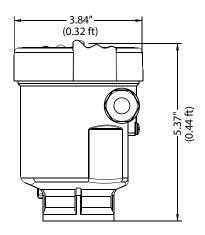
- Irrigation
- Water Tanks
- Utilities
- Chemical Measurement
- Mining

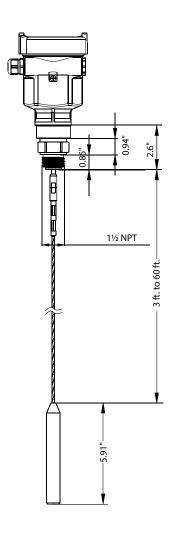


Dimension Drawing

Tek-Flex 4100C Two Wire TDR Level Transmitter with HART







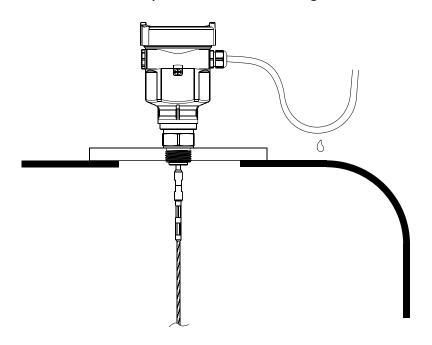
Specifications

Application	Compatible Liquids and Solids						
Wetted Material	316 SS and Kalrez						
Measuring Principle	TDR (Time Domain Reflectometry)						
Ranges	Up to 60 ft						
Accuracy	± 0.4"						
Process Pressure	-14.5 to 580 psi						
Process Temperature	-40 to 302°F (-40 to 150°C)						
Process Connection	1.5" Male NPT						
Protection Category	NEMA 4X, IP 66						
Housing	Epoxy Coated Aluminum						
Cable Entry	Two ½ NPT						
Power Supply	16 to 36 VDC						
Power Consumption	22.5 mA						
Damping	0 to 40 seconds						
Output Signal	4 to 20 mA with HART (2 wire)						
Minimum Dielectric Constant	0.3						
User Interface Options	LCD Display						



Installation

When mounting outdoors, humid indoors or on cooling/heating vessels, seal rings can become damp. In order to avoid dampness, seal rings used on cables should be screwed tight and the cable must be positioned downward outside the cable entry, as outlined on the diagram below.



Model Chart

Series	Tek-Flex 4100C										2 Wire TDR Level Transmitter with HART
Enclosure		Р									Standard NEMA 4X
Probe Type			Α								316SS
Process Connection				NP							1½" NPT
Seal Connection					В						Kalrez FFKM (-40 to 302°F)
Output						В					4-20mA with HART (2-wire)
Housing							Α				Epoxy Coated Aluminum
Electrical Connection								N			Two ½" FNPT
Display									Α		LCD Display
Cabel Length										XXX	Probe Length in inches



Tek-Trol is a fully owned subsidiary of TEKMATION LLC. We offer our customers a comprehensive range of products and solutions for process, power, and oil and gas industries. Tek-Trol provides process measurement and control products for Flow, Level, Temperature, and Pressure Measurement, Control Valves and Analyzer systems. We are present in 15 locations globally and are known for our knowledge, innovative solutions, reliable products, and global presence.

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