

Measurement Unlimited by The Imagination.

Non-contacting Radar Level Gauge

KRG-10



intelligent
DIGITAL
RADAR

Features

1. $\pm 2\text{mm}$ High Accuracy

TOKYO KEIKI's advanced pulse technologies achieve $\pm 2\text{mm}$ accuracy.

2. Advanced Echo Processing

"Multi-echo Historical-validation" checks trend continuity to track the echoes from liquid during process operation for smooth measurement. And, "Auto Noise Table Function" achieves stable and continuous level measurement on the Reactor tank application.

3. Rapid Tracking

"Full-range Search Mode" boosts detection speed and track up to 2m/sec level change.

4. Flow & Volume Calculation

"Extended Calculation Mode" outputs not only Tank Volume, but also Open Channel Flow Rate by Weir & Flume combination.

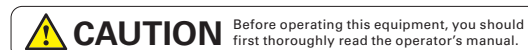
5. Wide line-up for various applications

KRG-10 can be installed for Corrosive, Adhesive and Hygienic applications by various antenna; Standard Cone, PTFE-Sealing and PFA-Rod. 4" down to even 1" tank nozzle can be applicable.

Specifications

General Specification	Frequency	26GHz	
	Beam Angle	8° (4inch Cone antenna & PTFE Sealing antenna)	
		12° (3inch PTFE Sealing antenna)	
		18° (2inch Cone antenna & PTFE Sealing antenna)	
		25° (1inch Rod antenna)	
Measurement	MAX range	30m	
	Accuracy	Cone & PTFE Sealing	$\pm 2\text{mm}$
		Rod	$\pm 3\text{mm}$
	Repeatability	$\pm 1\text{mm}$	
	Interval	1s	
Display	Tracking rate	2m / sec max.	
		5 digits LCD / 4 keys-menu-driven	
Power Supply Signal Output		Level, Distance, Volume (Flow), Current, Signal strength selectable	
	Power Supply (Loop-Powered)	DC10.5V $\sim$ 36V (In case of Ex, the voltage is rated separately.)	
	Signal Output	4 $\sim$ 20mA + HART	
	Alarm	Hold, 22mA or 3.6mA selectable	
	Ambient Temperature	$-40 \sim +70^\circ\text{C}$ (Non-Ex) / $-40 \sim +60^\circ\text{C}$ (Ex)	
Mechanical Specification	Tank Pressure	1.5MPa	
	Tank Temperature	$-40 \sim +200^\circ\text{C}$	
	IP Class	IP66/67	
	ATEX	II 1 G Ex ia IIC T4 Ga Ta = -40°C to $+60^\circ\text{C}$, IP66	
		II 1 D Ex ia IIIC T135°C Da Ta = -40°C to $+60^\circ\text{C}$, IP66	
		II 1/2 G Ex ia/db IIC T4 Ga/Gb Ta = -40°C to $+60^\circ\text{C}$, IP66	
	IECEX	Ex ia IIC T4 Ga Ta = -40°C to $+60^\circ\text{C}$, IP66	
		Ex ia IIIC T135°C Da Ta = -40°C to $+60^\circ\text{C}$, IP66	
Function	KCs	Ex ia/db IIC T4 Ga/Gb Ta = -40°C to $+60^\circ\text{C}$, IP66	
		Ex ia/db IIC T4 Ga/Gb	
		- Multi-echo historical validation	- Disturbance noise elimination
		- Bottom echo handler	- Distance filter window
		- Volume calculation	- Double bounce handler
			- Full-range search mode
			- Predict Output
			- Flow rate calculation (Weir / Flume)

Design and specifications are subject to change without prior notice, and without any obligation on the part of the manufacturer.




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