

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.

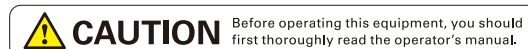
5. Wide line-up for various applications

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)	
		18° (2inch Cone antenna & PTFE Sealing antenna)	
Measurement		25° (1inch Rod antenna)	
	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	
		Level, Distance, Volume (Flow), Current, Signal strength selectable	
Power Supply Signal Output	Power Supply (Loop-Powered)	DC10.5V ~ 36V (In case of Ex, the voltage is rated separately.)	
	Signal Output	4 ~ 20mA + HART	
	Alarm	Hold, 22mA or 3.6mA selectable	
	Ambient Temperature	-40 ~ + 70°C (Non-Ex) / -40 ~ + 60°C (Ex)	
Mechanical Specification	Tank Pressure	1.5MPa	
	Tank Temperature	-40 ~ + 200°C	
	IP Class	IP66, NEMA4X	
	IECEX (Approval Pending)	Ex ia IIC T4 Ga / Ex ia IIIC 135°C Da IP66	
		Ex d ia IIC T4 Gb / Ex tb IIIC 135°C Db IP66	
	ATEX (Approval Pending)	II 1G Ex ia IIC T4 Ga / II 1D Ex ia IIIC 135°C Da IP66	
Function		II 2G Ex d ia IIC T4 Gb / II 2D Ex tb IIIC 135°C Db IP66	
	- Multi-echo historical validation	- Disturbance noise elimination	- Distance filter window
	- Bottom echo handler	- Double bounce handler	- Full-range search mode
	- Volume calculation	- 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.



TOKYO KEIKI

TOKYO KEIKI INC.

Measurement Systems Company

Head Office

2-16-46, Minami-Kamata, Ohta-ku, Tokyo 144-8551 JAPAN TEL. +81-3-3737-8664 FAX. +81-3-3737-8665

www.tokyo-keiki.co.jp/ryutai/