

# DOLPHIN SENSOR TYPE LEVEL METER Model KF-900



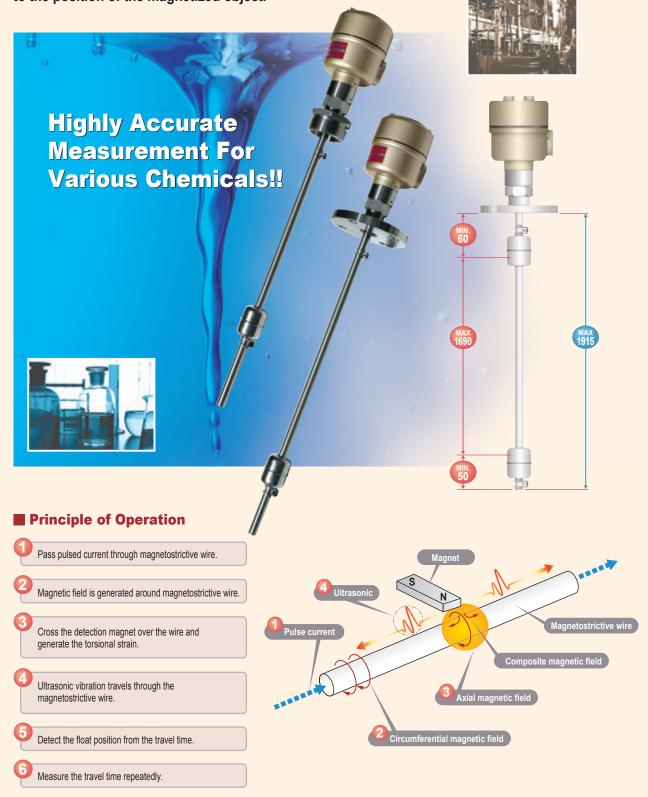
## **Magnetostrictive Model**

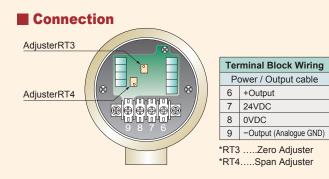
Accurated best performance for float type level indicator

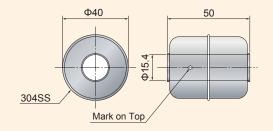
# KF-900 Magnetostrictive Model

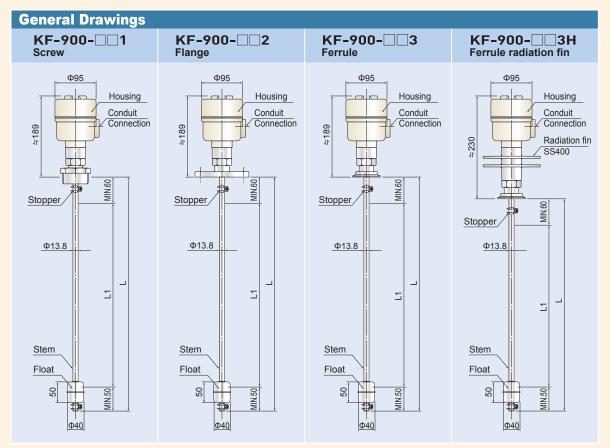
## **Highly Accurate Performance in Float Type Level Indicator!**

Linear Displacement Sensor with magnetostrictive wire inserted. It may detect at a magnetized place supersonic vibration transmitted through the magnetostrictive wire and output analogue signals proportional to the position of the magnetized object.





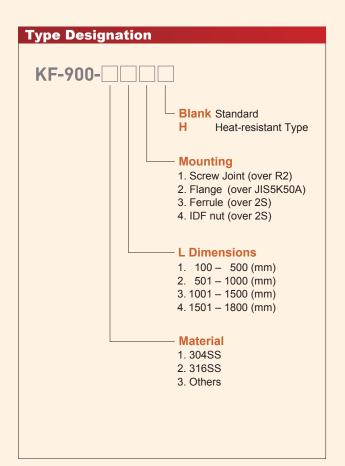




## **■ Standard Specifications**

Item	Specification
Power Source	+24VDC ±2V ( Ripple below 1% )
Power Consumption	Below 55mA
Linearity	±0.5mm or ±0.1%FS whichever is greater.
Repeatability	±0.02%FS ( L < 300mm )
Repeatability	±0.01%FS ( L ≥ 300mm )
Respnse Frequency	About 70Hz
Output Signal Current Output	4–20mA Load resistance below 400ohms
Hysteresis	Below 0.3mm
Temperature	Transducer : ±50ppm / °CFS
Characteristics	Detector: ±150ppm/°CFS
Temperature Range	-20 - +60°C ( No freezing )
Moisture Range	30 – 95% RH ( No condensation )
Withstand Voltage	1000VAC per 1 minute
Insulation Resistance	Over 50M ohms

Model		KF-900
Withstand Pressure		490kPa
Specific Gravity of Liquid		Over 0.63
Heat resistant Temperature	Wetted Part	60°C Heat-resistant Type 100°C
	Body	50°C
Wetted Parts Material		304SS / 316SS
Float Dimensions		Ф40mm × H50mm
Stem Outer Diameter		Ф13.8mm
Housing Material		ADC (Equivalent to IP55)
Enclosure Rating		Drip-proof (Equivalent to IP55)
Conduit Connection		G 1/2



#### **Notes**

- 1. Power and voltage should be within the specified range.
- 2. Avoid common use of power and earth with any instruments of generating high noise.
- 3. Wire transducer cable and power/output cable separately from other power lines

#### **Environments**

Avoid using at the places where strong magnetic and electric fields as well as hard vibration and impact take place.

#### Product Compatibility

- 1. Being compatible, floats in the same type number can freely be convertible.
- 2. Transducer and detector are not compatible. Be sure to use the identical serial number in pairing

## Others

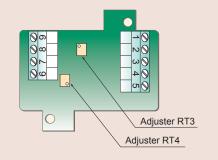
Do neither strain cable hard nor fold it repeatedly. There may be a fear of cable breaking (when a detector is separately used).

#### **■** Output Power Adjustment

At factory setting output signals are set to within ±1mm in both Zero and Span. When adjusting, you open the lid of terminal box to adjust Zero at RT3 and Span at RT4. Adjust RT3 and RT4 until Zero and Span can respectively come to a predetermined level.

#### ■ Warming-up

Warm up more than 10 minutes afterpower supply voltage is charged.



#### Line of business

- Rotary Paddle Type Level Switch Conductance Type Level Switch
- Vibration Type Level Switch Swing Type Level Switch
- · Acoustic Level Switch
- Capacitance Type Level Switch
- Capacitive Proximity Sensor
- Capacitance Type Level Indicator
- Diaphragm Type Level Switch
- · Tilt Switch
- Leak Type Level Switch
- Microwave Type Switch

- Float Switch · Float Type Level Indicator
- Ultrasonic Type Level Indicator
- Equipments For Conveyor Lines
- Dust Monitor System
- · Zirconia Oxvgen Analyzer
- · Laser Type Level Indicator • RADAR Type Level Indicator
- On-line Sensors for Accurate
- Liquid Analysis
- Sounding Bob Type Level Indicator Ultrasonic Flow meter

· Flow Switch

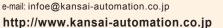
\*Please be sure to read USER'S GUIDE, Installation & Operation Instructions before using the instrument

\*The specifications herein may be subject to change without advance notice.

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SGS

Design, development, and manufacture of level measuring sensors