

**MAGNETIC FLOAT TYPE LIQUID LEVEL TRANSMITTER**

# **KER-100R SERIES**

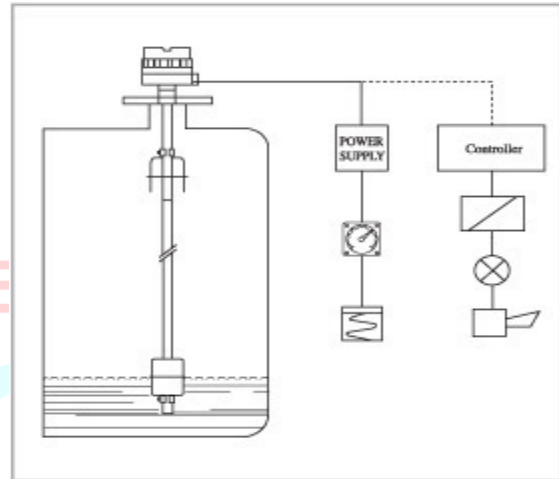


**LEADER OF CONTROL**

# Magnetic Float type Liquid Level Transmitter KER-100R Series

## General

KOSMO E&T KER-100R Series is a level transmitter to measure for liquids as installed in tank. The installation and operation are simple. Furthermore, since the wet parts material can be changed, it widely applicable to the various kinds of liquids including the corrosive liquid.

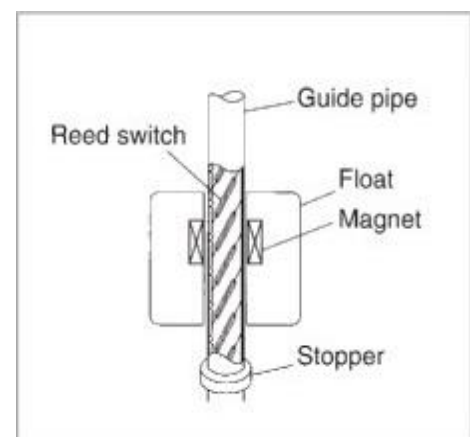


## Feature

- It can use to water & sewerage, industrial water and chemical.
- Installation and Operation are convenient.
- Since the wet parts material can be changed, it applicable to the corrosive liquid.

## Operation Principle

As the liquid level moves, the float is moved the same as liquid level by the buoyancy. Also, as the operating point of the reed in the switch guide pipe is changed, it gives the change to the resistance value the same as displacement value and the resistance value is converted into current values (mA) by the built-in CONVERTER. It is transmitted to the indicator.



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## Specification

Model	KER-100RS	KER-100RT	KER -100RV
Housing	Aluminium Casting		
Ambient Temperature	-20°C + 60°C		
Temperature in Tank	-15°C~+80°C (Option : 150°C)	-15°C~+60°C	
Power Source	DC 24V		
Conduit Conn.	PF 1/2"(F)		
Output Signal	DC 4 ~ 20mA		
Enclosure	Weather Proof / Option : Ex-Proof (Exd II C, T4, IP65)		
Wet part Material	SUS304 / SUS316	SUS 304 + PTFE Lining	SUS 304 + PVC Lining
Connection Size	3" or 4" 10K RF / FF		
Range	Max. 6000mm		
Operating Pressure	10 kg / cm <sup>2</sup>	Max. 2kg / cm <sup>2</sup>	ATM
Accuracy	± 1.0%		
Calibration	Zero and Span Selection		

## Dimensions

\* KER-100RS

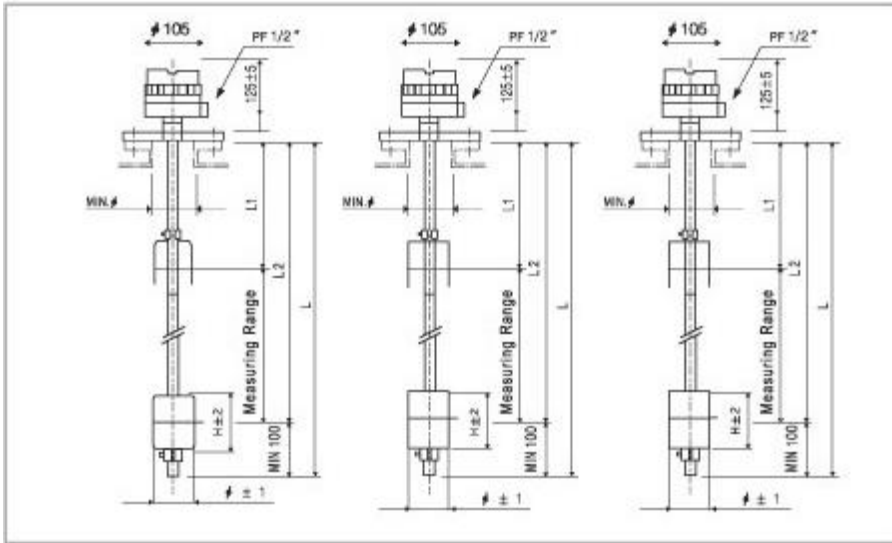
\* KER -100RT

\* KER -100RV

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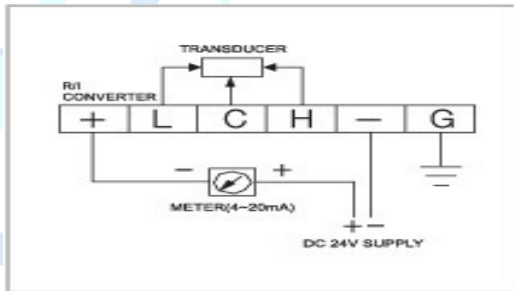


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### Connection



- Please use to shield cable separated (2C X 1.25Ø)
- Separated to power line of plant
- Please have to do ground line

#### ● Attachment (2"KS 10K)

	SUS 304	SUS 316	PVC	PTFE
FLOAT SIZE	Ø 49 X H49	Ø 49 X H49		Ø 49 X H51
GUIDE PIPE	Ø 14	Ø 14		Ø 16

#### ● Attachment (3"KS 10K)

	SUS 304	SUS 316	PVC	PTFE
FLOAT SIZE	Ø 74 X H105	Ø 74 X H105	Ø 76 X H100	Ø 70 X H100
GUIDE PIPE	Ø 21.7	Ø 21.7	Ø 26	Ø 18

#### ● Attachment (4"KS 10K)

	SUS 304	SUS 316	PVC	PTFE
FLOAT SIZE	Ø 95 X H115	Ø 95 X H115	Ø 76 X H100	Ø 83 X H100

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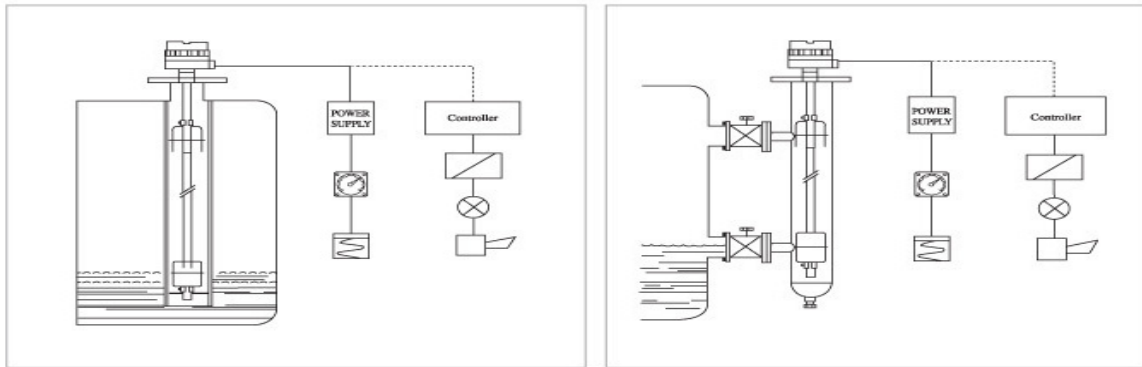


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<b>GUIDE PIPE</b>	$\varnothing$ 25.4	$\varnothing$ 25.4	$\varnothing$ 26	$\varnothing$ 18
<b>GUIDE PIPE(over 3M)</b>	$\varnothing$ 31.8	$\varnothing$ 31.8		

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## Installation



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**Order Codes**

\* Model  
S : SUS  
V : PVC  
T : Teflon

\* Wet Part Material  
S<sub>1</sub> : SUS 304  
S<sub>2</sub> : SUS 316  
V : PVC  
T : Teflon

\* Enclosure  
0 : Weather Proof  
E : Ex-Proof (Exd IIC T4 IP65)

\* Pressure Temperature  
S<sub>1</sub> : 10kg/cm<sup>2</sup> & 80°C  
S<sub>0</sub> : 10kg/cm<sup>2</sup> & 150°C  
V : ATM & 60°C  
T<sub>1</sub> : ATM & 80°C  
T<sub>0</sub> : ATM & 150°C

\* Mounting Size  
1 : Flange size JIS 80A 10K FF (6t)  
2 : Flange size JIS 80A 10K RF  
3 : Flange size JIS 100A 10K RF  
4 : Flange size 3" ANSI 150#RF  
5 : Flange size 4" ANSI 150#RF  
S : Special Version

\* Housing Material  
A : ADC 12  
S : Special Version ( )

\* Measuring / Inactive Length  
L1 : ( )mm  
L2 : ( )mm

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L ( )mm

\* Output Signal  
A : 4~20 mA DC  
B : 0~1 K ℓ  
O : PT2" Sockt  
S : Special Version ( )

\* Conduit Conn.  
S1: PF 1/2  
S2 : PF 3/4"  
N1 : NPT 1/2"  
N2 : NPT 3/4"

KER - 100R

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