

Guided Wave Radar Level Transmitter







































PRODUCT INTRODUCTION

OPERATING PRINCIPLE

The guided wave radar level transmitter is a solid and liquid level measuring instrument commonly used in the industry. It transmits electromagnetic pulses along with the steel wire cable or rod; when these encounter the surface of medium to be measured, the pulses will be partly reflected to form an echo wave and returned to the pulse transmission device along the same path, and the height of liquid level can be calculated.

The guided wave radar level transmitter uses advanced echo wave processing technology with a wide range of product applications that is capable of measuring the low dielectric constant of solid buck; and capable of measuring the solid level, liquid level and medium surface. The product models include coaxial, tube/rod, steel wire cable type for the customer's choice, suitable for high temperature and high pressure medium liquid level measurement.

FEATURES

- Applicable for various measurement requirements of different temperature, pressure and medium
- Contact measuring, capable of overcoming the steam, foam and stirring effects.
- 4~20 mA / 2 lead wires, simple wiring, low power consumption (2.4W max.).
 128*64 LCM Display, easy on-site adjustment.
- Display distance, level, percentage, current 4~20 mA.
- Unique echo wave processing technology can be used under various types of complex work conditions.
- Echo wave graphics display function, to display the signal waveform inside the tank, can be used for background noise processing.
- Operation Interface Language Selection: Traditional Chinese, Simplified Chinese, English.
 Capable of simulating output current signal of 4mA, 20mA.
- Support save back ground noise function, it could help to eliminate fake echoes.
- Support internal automatic temperature compensation.

TEST STANDARDS

High voltage :IEC60947-2
Insulation resistance :IEC60092-504
Power supply variation :IEC60092-504
Power supply failure :IEC60092-504
Electrical burst testing :IEC61000-4-4
Voltage DIPS :IEC61000-4-11
Humidity :IEC60068-2-30
High/Low temperature test :IEC60068-2-38

IP protection rating :IEC60529

APPLICATION AREAS

Power plant

Chemical plant

Cement plant

Water treatment

Paper mill plant

Steel plant

Refinery plant



Dimensions (Unit: mm)	1/2"PF 49 Flange 3/4"PF 225 00009-0009	1/2"PF 49 Flange 3/4"PF 25 000007-008 M12xP1.25			
Model	JTR301 Sa	andard type			
Medium of the material	Liquid				
Min. Dielectric (constant)	2.0				
Measuring range	6m	20m			
Accuracy	±5mm or ±0.1% F.S. Whichever is greater				
Repeatability	±3mm or ±0.05% F.S. Whichever is greater				
Ambient temperature	-40~80°C(Applied for Ex-proof, as: ATEX \ CSA \ IECEx, NEPSI:-40~60°C)				
Operating temperature	-40~150°C				
Operating pressure	0~60B	ar(25°C)			
Power supply	16~30Vdc Loop Pov	wer, 16~30Vdc 4-Wire			
Analog output	4~2	20mA			
Current distinguishability	1.0	6uA			
Load impedance	(Vs-16)/0.022 Ohm for 2-W	ire, 300 Ohm for 4-Wire>16V			
Digital communication	Compatible with HART, Read Only f	for 2-Wire, RS485(Modbus) for 4-Wire			
Housing material	Aluminum alloy				
Protection rating	IP67				
Version	Rod type Cable type				
Minimum connection	3/4"PF				
Dead band	High constant coefficient (ϵ >10): Upper dead band<100mm · Lower dead band<50mm Low constant coefficient (ϵ <10): Upper dead band<500mm · Lower dead band<100mm				
Intrinsically safe parameters (option)	ATEX / CSA / IECEx / NEPSI, details please check chapter " Intrinsically safe parameters".				



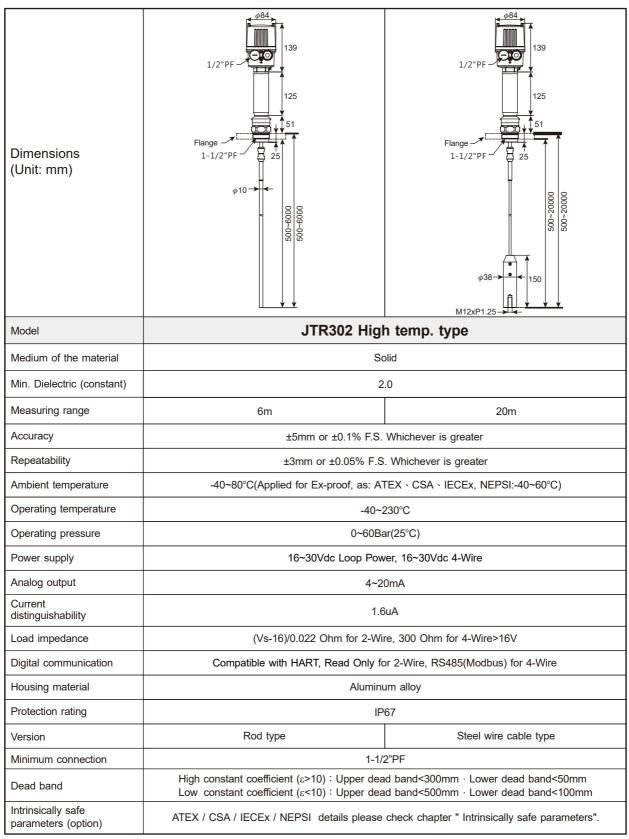
Dimensions (Unit: mm)	1/2"PF 139 1/2"PF 49 125 0009-009 0009-009	1/2"PF 139 1/2"PF 49 125 00007-009 00007-009			
Model	JTR301 Hig	h temp. type			
Medium of the material	Liquid				
Min. Dielectric (constant)	2.0				
Measuring range	6m	20m			
Accuracy	±5mm or ±0.1% F.S. Whichever is greater				
Repeatability	±3mm or ±0.05% F.S. Whichever is greater				
Ambient temperature	-40~80°C(Applied for Ex-proof, as: ATEX \ CSA \ IECEx, NEPSI:-40~60°C)				
Operating temperature	-40~230°C				
Operating pressure	0~60Bar(25°C)				
Power supply		ver, 16~30Vdc 4-Wire			
Analog output		20mA			
Current distinguishability	1.6	6uA			
Load impedance	(Vs-16)/0.022 Ohm for 2-Wi	ire, 300 Ohm for 4-Wire>16V			
Digital communication	Compatible with HART, Read Only f	for 2-Wire, RS485(Modbus) for 4-Wire			
Housing material	Aluminum alloy				
Protection rating	IP67				
Version	Rod type Cable type				
Minimum connection	3/4	1."PF			
Dead band	High constant coefficient (ϵ >10): Upper dead band<300mm · Lower dead band<50mm Low constant coefficient (ϵ <10): Upper dead band<500mm · Lower dead band<100mm				
Intrinsically safe parameters (option)	ATEX / CSA / IECEx / NEPSI , details please check chapter "Intrinsically safe parameters".				



Dimensions (Unit: mm)	1/2"PF 51 Flange 1-1/2"PF 25	1/2"PF 51 Flange 1-1/2"PF 25 00007-009 M12xP1.25		
Model	JTR302 Sa	indard type		
Medium of the material	Solid			
Min. Dielectric (constant)	2.0			
Measuring range	6m	20m		
Accuracy	±5mm or ±0.1% F.S. Whichever is greater			
Repeatability	±3mm or ±0.05% F.S. Whichever is greater			
Ambient temperature	-40~80°C(Applied for Ex-proof, as: ATEX \ CSA \ IECEx, NEPSI:-40~60°C)			
Operating temperature	-40~150°C			
Operating pressure	0~60Ba	ar(25°C)		
Power supply	16~30Vdc Loop Pov	ver, 16~30Vdc 4-Wire		
Analog output	4~2	20mA		
Current distinguishability	1.6	6uA		
Load impedance	(Vs-16)/0.022 Ohm for 2-Wi	ire, 300 Ohm for 4-Wire>16V		
Digital communication	Compatible with HART, Read Only for 2-Wire, RS485(Modbus) for 4-Wire			
Housing material	Aluminum alloy			
Protection rating	IP67			
Version	Rod type Steel wire cable type			
Minimum connection	1-1/	/2"PF		
Dead band	High constant coefficient (ϵ >10): Upper dead band<100mm · Lower dead band<50mm Low constant coefficient (ϵ <10): Upper dead band<500mm · Lower dead band<100mm			
Intrinsically safe parameters (option)	ATEX / CSA / IECEx / NEPSI , details please check chapter "Intrinsically safe parameters".			

 $\ensuremath{\mathbb{X}}$ It shall combine with the ex-proof fence meeting level Ex ia to form the intrinsically safe system.







Dimensions (Unit: mm)	1/2"PF 49 Flange 3/4"PF 37.2	1/2"PF 125 1/2"PF 37.2 \$\phi 21.7 \text{0009-009}{0009-009} \text{0009}{0009-009} \text{0009-009}{0009-009} \text{0009-009}{0009-009} \text{0009-009}{0009-009} \text{0009-009}{0009-009} \text{0009-009}{0009-009} \text{0009-009}{0009-009} \text{0009-009}{0009-009} \text{0009-009}{0009-009} \text{0009-009}{0009-009} \text{0009}{0009-009} \text{0009-009}{0009-009} \text{0009-009} \text{0009-009}{0009-009} \text{0009-009}{0009-009} \text{0009-009}{0009-009} \text{0009-009} 00			
Model	JTR305 Sandard type	JTR305 High temp. type			
Medium of the material	Low Dielectric Liquid				
Min. Dielectric (constant)	1.6				
Measuring range	6m				
Accuracy	±5mm or ±0.1% F.S. Whichever is greater				
Repeatability	±3mm or ±0.05% F.S. Whichever is greater				
Ambient temperature	-40~80°C(Applied for Ex-proof, as: A1	rex · csa · iecex, nepsi:-40~60°c)			
Operating temperature	-40~150°C	-40~230°C			
Operating pressure	0~60Ba	ar(25°C)			
Power supply	16~30Vdc Loop Pow	ver, 16~30Vdc 4-Wire			
Analog output	4~20	0mA			
Current distinguishability	1.6	òuA			
Load impedance	(Vs-16)/0.022 Ohm for 2-Wire, 300 Ohm for 4-Wire>16V				
Digital communication	Compatible with HART, Read Only for 2-Wire, RS485(Modbus) for 4-Wire				
Housing material	Aluminum alloy				
Protection rating	IP67				
Version	Coaxial type				
Minimum connection	3/4"PF				
Dead band	High constant coefficient (ϵ >10): Upper dead band<100mm · Lower dead band<50mm Low constant coefficient (ϵ <10): Upper dead band<500mm · Lower dead band<100mm				
Intrinsically safe parameters (option)	ATEX / CSA / IECEx / NEPSI , details please	e check chapter "Intrinsically safe parameters".			



Dimensions (Unit: mm)	1/2"PF 49 25 1"(3A) 00000000000000000000000000000000000	1/2"PF 51 25 2"(3A) 0009-009			
Model	JTR30A Sa	anitary type			
Medium of the material	Liquid	Solid			
Min. Dielectric (constant)	1.6				
Measuring range	6m				
Accuracy	±5mm or ±0.1% F.S. Whichever is greater				
Repeatability	±3mm or ±0.05% F.S. Whichever is greater				
Ambient temperature	-40~80°C(Applied for Ex-proof, as: ATEX · CSA · IECEx, NEPSI:-40~60°C)				
Operating temperature	-40~150°C				
Operating pressure	0~60Bar(25°C)				
Power supply	16~30Vdc Loop Pow	ver, 16~30Vdc 4-Wire			
Analog output	4~2	0mA			
Current distinguishability	1.6	SuA			
Load impedance	(Vs-16)/0.022 Ohm for 2-Wi	re, 300 Ohm for 4-Wire>16V			
Digital communication	Compatible with HART, Read Only for 2-Wire, RS485(Modbus) for 4-Wire				
Housing material	Aluminum alloy				
Protection rating	IP67				
Version	Rod type				
Minimum connection	1"(3A) 2"(3A)				
Dead band	High constant coefficient (ϵ >10): Upper dead band<100mm · Lower dead band<50mm Low constant coefficient (ϵ <10): Upper dead band<500mm · Lower dead band<100mm				
Intrinsically safe parameters (option)	ATEX / CSA / IECEx / NEPSI , details please check chapter "Intrinsically safe parameters".				



Dimensions (Unit: mm)	1/2"PF 139 1/2"PF 49 25 1"(3A) 0009 0009	1/2"PF 125 2"(3A) 0009-0009			
Model	JTR30A Sanitary	/ High temp. type			
Medium of the material	Liquid Solid				
Min. Dielectric (constant)	1.6				
Measuring range	6m				
Accuracy	±5mm or ±0.1% F.S. Whichever is greater				
Repeatability	±3mm or ±0.05% F.S. Whichever is greater				
Ambient temperature	-40~80°C(Applied for Ex-proof, as: ATEX \ CSA \ IECEx, EPSI:-40~60°C)				
Operating temperature	-40~230°C				
Operating pressure	0~60Bar(25°C)				
Power supply	16~30Vdc Loop Power, 16~30Vdc 4-Wire				
Analog output	4~2	0mA			
Current distinguishability	1.6uA				
Load impedance	(Vs-16)/0.022 Ohm for 2-Wi	re, 300 Ohm for 4-Wire>16V			
Digital communication	Compatible with HART, Read Only for 2-Wire, RS485(Modbus) for 4-Wire				
Housing material	Aluminum alloy				
Protection rating	IP67				
Version	Rod type				
Minimum connection	1"(3A) 2"(3A)				
Dead band	High constant coefficient (ε>10): Upper dead band<300mm · Lower dead band<50mm Low constant coefficient (ε<10): Upper dead band<500mm · Lower dead band<100mm				
Intrinsically safe parameters (option)	ATEX / CSA / IECEx / NEPSI , details please check chapter "Intrinsically safe parameters".				

INTRINSICALLY SAFE PARAMETERS

ATEX CSA IECEx TS:

Model series	Power circuit	Input entity parameters	Output entity parameters
JTR30XD	JLoop power 16~30Vdc X 2 with HART, by 2-core wire via terminal blocks J1 and J2	Loop power 1 In (V1+, V1-): Ui = 30V Ii = 100 mA Pi = 0.7W Ci = 0 Li = 0 Loop Power 2 In (V2+, V2-):	None
		Same as above	
JTR30XB	Loop power 16~30Vdc with HART, by 2-core wire via terminal blocks J1	Loop power In (V+, V-): Ui = 30V Ii = 100 mA Pi = 0.7W Ci = 0 Li = 0	None
for ' Uo : Io = Po : Co	4-Wire 16~30Vdc 4~20mA with RS485, by 2-core wire via terminal blocks J1 and J4 te: dback signal parameter RS-485 In' is: = 5.88V 12.5mA = 18.5mW = 43µF = 3555µH	RS-485 In (D+, D-)*: Ui = 12V Ii = 100mA Pi = 0.3W Ci = 0 Li = 0 Power In (V+, V-): Ui = 30V Ii = 100mA Pi = 0.7W Ci = 0 Li = 0	Analog Out 1 (I+, I-): Uo = 13.65V Io = 69mA Po = 0.236W Co = 0.79µF Lo = 7468µH Through 2-core wire via terminal block J2 Analog Out 2 (I2+, I2-): Uo = 13.65 V Io = 69mA Po = 0.236W Co = 0.79µF Lo = 7468µH Through 2-core wire via terminal block J3
for ' Uo	4-Wire 16~30Vdc 4~20mA with RS485, by 2-core wire via terminal blocks J1 and J4 te: dback signal parameter RS-485 In' is: = 5.88V 12.5mA = 18.5mW = 43µF = 3555µH	RS-485 In (D+, D-)*: Ui = 12V Ii = 100mA Pi = 0.3W Ci = 0 Li = 0 Power In (V+, V-): Ui = 30V Ii = 100mA Pi = 0.7W Ci = 0 Li = 0	Analog Out 1 (I+, I-): Uo = 13.65V Io = 69mA Po = 0.236W Co = 0.79µF Lo = 7468µH Through 2-core wire via terminal block J2
for 'l Uo = lo = Po = Co =	4-Wire 5Vdc with RS485, by 2-core wire via terminal blocks J1 and J4 de: dback signal parameter RS-485 In' is: = 5.88V 12.5mA = 18.5mW = 43µF = 3555µH	RS-485 In (D+, D-)*: Ui = 12V Ii = 100mA Pi = 0.3W Ci = 0 Li = 0 Power In (V+, V-): Ui = 10V Ii = 300mA Pi = 0.7W Ci = 0 Li = 0	None

MEASURING RANGE

NEPSI:

Terminal Code	Max. Voltage Max. Current		Max. Power	Max. Internal equivalent parameter		
(Power)	Input Ui (V)	Input li (mA)	Input Pi (W)	Ci (µF)	Li (mH)	
V1+ · V1 - V2+ · V2 -	30	100	0.7	0	0	
V+ · V-	30	100			0	
	10	300	0.7	0		

Terminal Code	Max. Voltage	Max. Current	Max. Power	Max. Internal equivalent parameter		
(RS485)	Input Ui (V)	Input li (mA)	Input Pi (W)	Ci (µF)	Li (mH)	
D+ · D-	12	100	0.3	0	0	
	Max. Voltage	Max. Current Output Io (mA)	Max. Power Output Po (mW)	Max. External Parameter		
	Output Uo (V)			Co (µF)	Lo (mH)	
	7	15	25	See	e below	

Terminal Code	Max. Voltage	Max. Current	Max. Power Max. Internal equivalent p		ivalent parameter	
(AO)	Input Ui (V)	Input li (mA)	Input Pi (W)	Ci (µF)	Li (mH)	
	15	70	0.25	0	0	
+ · -	Max. Voltage	lax. Voltage Max. Current Max. Power		. Power Max. External parameter		
l2+ · l2-	Output Uo (V) Output	Output Io (mA)	Output Po (mW)	Output Po (mW)	Co (µF)	Lo (mH)
	14	70	0.25	See below		

Terminal Code	Total		
Terminal Code	Co (μF)	Lo (mH)	
D+ · D- I+ · I-	0.5	1.0	
I2+ · I2-			

MEASURING RANGE

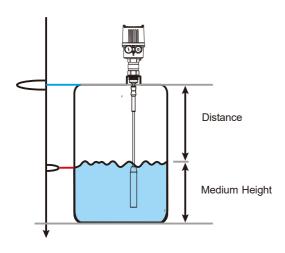
JTR301 / JTR305					
Dielectric constant (ε _r)	Typical liquids	Steel wire cable type	Rod type	Coaxial type	
1.6~2.0	 Liquefied gas, e.g. propane Solvent Freon Palm oil 	Need special model with S5 type float		6m	
2.0~2.5	Mineral oils, fuels	12m	6m	6m	
2.5~4.0	Benzene, styrene, tolueneFuranNaphthalene	14m	6m	6m	
4.0~7.0	Chlorobenzene, chloroformCellulose sprayIsocyanate, aniline	16m	6m	6m	
> 7.0	Aqueous solutionsAlcoholsAmmonia	20m	6m	6m	

JTR302			
Dielectric constant (ε _r)	Typical liquids	Steel wire cable type	Rod type
2.0~2.5	Portland cementPlasterPlastic granulate	12m	6m
2.5~4.0	 Grain, seeds Flour Ground stones Sand	14m	6m
4.0~7.0	Naturally moist stones, oresSalt	16m	6m
> 7.0	Metallic powderCarbon blackCoal	20m	6m

FUNCTIONAL PRINCIPLE

LIQUID LEVEL MEASUREMENT

High frequency microwave pulses travel along the steel wire cable or tube/rod. When they reach the medium surface, the microwave pulses are reflected. The pulse operating time is calculated and outputted by the electronic instrument of this meter as the liquid level height.



BOTTOM SIGNAL ENHANCEMENT & TRACKING TECHNOLOGY

This sensor is equipped with bottom sensing detection tracking mode, when the measured medium has a low dielectric constant, in order to increase the sensitivity. This feature is useful such as in the plastic particles, packing chips or in liquefied containers. When the dielectric constant is between 3 and 10, as long as the echo wave signal cannot be detected, the bottom sensing detection tracking function will be automatically activated.

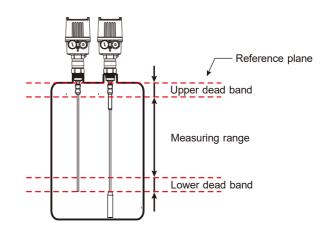
The calculation of the measured value uses the dielectric constant last recorded; the accuracy of the meter depends on the stability of the dielectric constant.

If the medium's dielectric constant is less than 3, the bottom sensing detection tracking function is automatically activated throughout the process. The medium's dielectric constant must be input as a stable dielectric constant is important in the measurement.

 Please refer to product manual for details of setting.

BLIND AREA

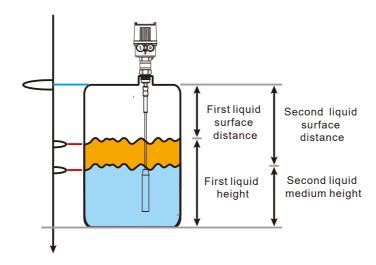
The bench-mark of the measuring range is the thread or flange contact surface of the sensor. It should be noted that the measuring range is below the reference plane to the bottom of the induction rod and the upper and lower blind areas that cannot be measured. The default value, measuring range of this meter is set up with "water" as the test medium.



FUNCTIONAL PRINCIPLE

DUAL LIQUID LEVEL INTERFACE MEASUREMENT

High frequency microwave pulses travel along the steel wire cable or tube/rod. When they reach the medium surface, part of the microwave pulses are reflected. The other part penetrates through the upper layer of medium and generates the second reflection at the interface between upper and lower layers of the medium. Two pulse operating time periods are calculated and outputted by the electronic instrument of this meter as the dual liquid level heights.



Dual Liquid Level Interface Measuring Condition:

Upper layer medium (L2):

The upper layer medium must be nonconductive dielectric; the dielectric constant of upper layer medium or the actual distance to interface must be known; the dielectric constant of the upper layer medium needs to be greater than 1.6.

The upper layer medium must be stable and the medium cannot be changed or mixed; the upper layer medium must be uniform, and the minimum thickness of the upper layer medium without layering shall be greater than 50 mm (1.97 inches) and clearly separated between the upper layer and lower layer mediums. If there is emulsion phase or debris layer, the maximum thickness shall not be greater than 50 mm (1.97 inches), better measuring results can be achieved without foam on the surface if possible.

Lower layer medium (L1):

The dielectric constant of lower layer must be 10 greater than the dielectric constant of lower layer, preferably conductive medium.

For example, if the dielectric constant of upper layer is 2, the dielectric constant of lower layer shall be at least 12.

Gas layer (L3):

This layer is the mixture of air or gas

Dual Liquid Level Interface Measurement output signal setting:

The meter shall be set up for using in "Separate layers interface measurement", used in interface measurement of two types of liquid, dual analog output version can be selected and adjusted in the setting menu.

INSTALLATION INFORMATION

Please note that when installing the JTR3 series product in a metal container, the spacing from the other devices in the container shall be at least 300 mm (12 in).

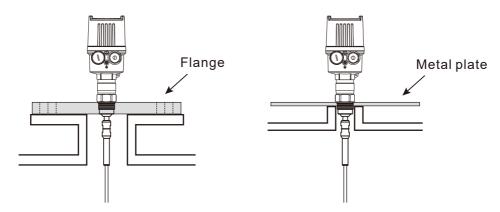
When installing in a non-metal container, the spacing from the container wall shall be at least 500 mm (19.7 in). It is necessary to ensure the probe must not touch any device or tank wall during operation.

It is recommended to fix the bottom of the probe in the tank to reduce the probe shaking when using steel wire cable type induction probe.

Please note that this instrument has upper and lower blind areas that it is disable to measure the full end of probe..

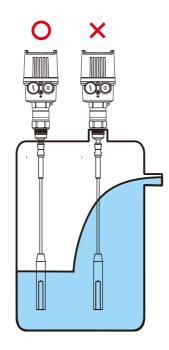
When the welding operation is required during the installation process, please remove the electronic module of the sensor from the terminal box before starting the welding work to avoid damage to the electronic equipment due to induction coupling or other failures.

When used in plastic/glass containers, it is necessary to use the meter type with flange or place a piece of metal plate (ø> 200mm / 8in) under the processing connection when mounted. The metal plate shall be directly contacted with the processing connection.



During installation, please avoid using the extended nozzle on the container. Please install the sensor leveled with the top of the container as possible. If this cannot be done, please use a shorter extended nozzle.

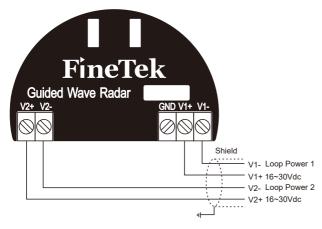
Please do not install this instrument at the inlet to ensure that the sensor is in a stable position in the medium and not in the inflow position of the liquid to avoid false measurements when the liquid flows in.



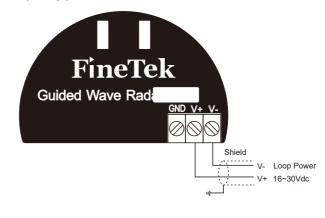
WIRING DIAGRAM

2-wire type

JTR30XD series



JTR30XB series



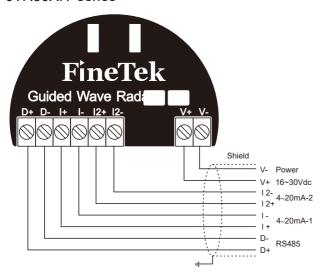


Note! For 2-wire loop power type: when equipped with two sets of analog outputs, each circuit should be operated independently.

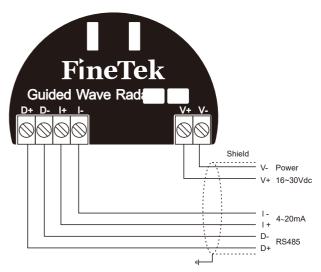
Parallel connection of the two circuits will cause abnormal current output.

4-Wire type

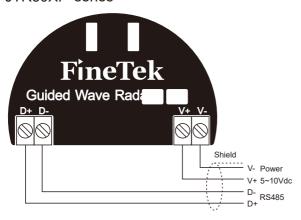
JTR30XH series



JTR30XE series



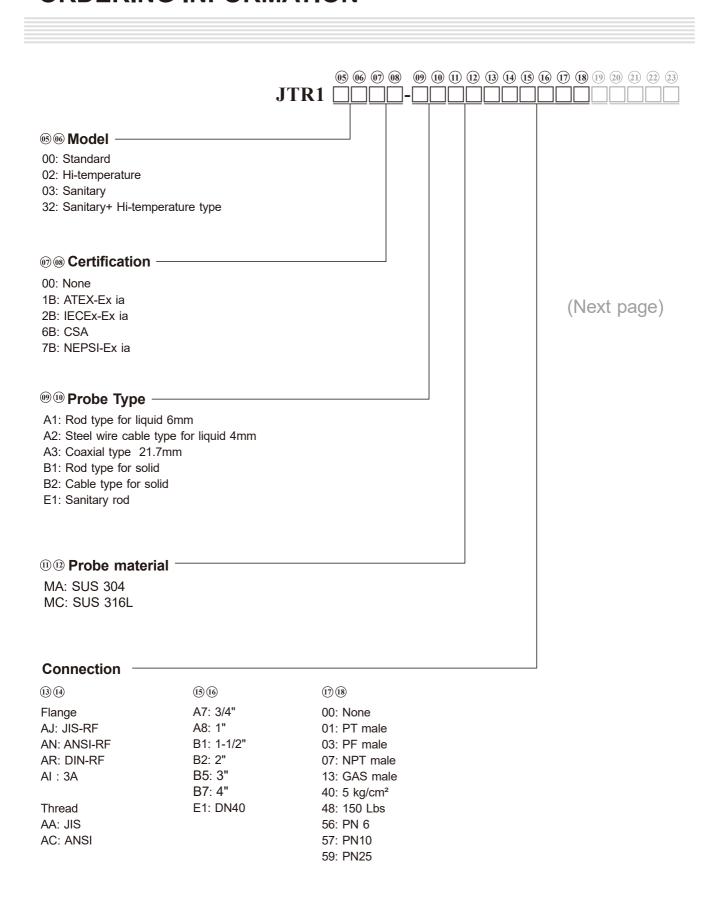
JTR30XF series

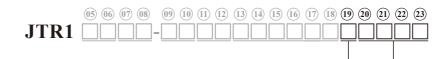


MODEL NUMBER / ORDER CODE COMPARISON TABLE

Model Number	Order Code
JTR301	JTR1□□□□-A1 JTR1□□□□-A2
JTR302	JTR1□□□□-B1 JTR1□□□□-B2
JTR305	JTR1□□□□-A3
JTR30A	JTR103□□-E1

ORDERING INFORMATION





Output/input --

B: Loop Power 16 ~ 30 Vdc with HART

D: Loop Power 16 ~ 30 Vdc X 2 with HART

E: 4-Wire 16 ~ 30Vdc 4~20mA with RS485

H: 4-Wire 16 ~ 30Vdc, 4~20mA X2 with Rs485

F: 5~10 Vdc, only RS485

20 21 22 23 Length -

Code	Probe Length
0500~6000	500~6000mm
0500~A200	500~20000mm

JTR Radar Level Transmitter

Customer Inform	nation	Prepared by:	Date:	
Company:		Industry:		
E-mail:			_ Phone Number:	
Application Info				
B.1 Measuring N		tion		
Application Description:				
Installation Area:	☐ Storage tank	☐ Process tank	☐ Open-air application	
Material Status :	□Liquid	☐ Slurry/ Sludge/ Paste	☐ Solid/ Granulate/Grain	□ Powder
			□ 1.4~1.9	□4.0~10.0
Material Name :		Dielectric Constant	□ 2.0~2.5	□ > 10
			□ 2.6~4.0	□Unknow
B.2 Power Supply ☐ DC :				
B.3 Output Signal Analog : ☐ 4~20 n Digital : ☐ RS-485	nA-4 Wire] 4~20mA 2-Wire] HART	☐ Other ☐ Other	
B.4 Measuring ran	nge			
Measuring range:	me	eters		
B.5 Measuring Cor Operating Tempera Max: Abient Temperature Max: Operating Pressure Max:	nture Min: e Min:	_°C		
B.6 Connection Connection: ☐ Thr Size and Standard		□ Flange Flange Materi	al:	

B.7 Tank Informa	ation				
Tank Shape	☐ Vertical Cylinder	☐ Horizontal Cylinder	☐ Spherical		
тапк опарс	□ Cubical/rectangular	□ Other:			
Tank Material	□ Metal	☐ Plastic	☐ Cement	☐ Other	
	□ Flat				
	□ Dish				
Tank Bottom	□ Cone				
	□ Other (Please describe)				
Tank Tank Height (H): Tank Diameter (W): _ Cone Height (H1): (Ignore cone height wi	m m		D2	lozzle L	
Radar Distance to tank wall(E	01):m		D		
Nozzle ☐ Yes Nozzle Diameter (L): _ Nozzle Height (D): ☐ NO		Ladder	Agitator		
Agitator ☐ Yes Distance to rada (D2): ☐ NO	m		W	Н	
Ladder ☐ Yes Distance to rada (D3): m ☐ NO					
Heater □ Yes □ NO				Н1	
Other Internal Obstacle ☐ Yes ☐ NO	es			<u>↓</u> <u>↓</u>	

SUCCESS STORY





Water purification barrel



High temperature boiler



Copper sulfate storage tank



Food factory - bean dregs storage barrel

Global Network



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