



Guided Wave Radar Level Transmitter



Features

- Guided wave radar measurement for up to 3.0 mm accuracy Measures level and interface on challenging applications including foam Trouble-free operation since the transmitter is virtually unaffected bydust, vapor, interfering obstacles, and turbulence. It is even suitable for small or oddly
- Please contact us before order for detailed certificate

Applications

- Oil, gas and refining

- ulp and paper /ater and sewage treatment ood and beverage

Probe Type

- gle Flexible Rod Probe ~20.0m/0.5 to 75 ft)

- gle Rigid Rod Probe ~6.0m(2 to 20 ft) in Flexible Rod Probe
- -6.0m(2 to 20 ft) n Rigid Rod Probe -6.0m(2 to 20 ft)
- 0.6~6.0m(2 Coaxial Probe 0.6~6.0m(2 to 20 ft)

Specification

Measuring range	0.15~20m		
Output	Туре	Analog 4 to 20mA with Hart digital signal	
	Loop Resistance	250~360Ω (@ 24 Vdc)	
	Diagnostic Alarm	Adjustable 3.78, 21.1mA	
Power	16~45VDC		
Operation temperature	-40 to +80°C		
Accuracy	+/- 3mm		
Response Time	< 1second		
Warm-up Time	< 5 seconds		
Process Condition	Temperature: -40~165°C (-40~400°C optional) Pressure: -1~70 bar (200bar optional)		

MODEL ALT6100

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AUTROL

Smart Guided Wave Radar Level Transmitter

ALT-6100

Overview

The ALT-6100 is a time domain reflectometer (TDR) configured for level sensing. It measures the round-trip time for a pulse to propagate along a transmission line (or probe) to the surface of a liquid and reflect back. The propagation time is independent of air temperature, pressure and humidity, and the precise location of the pulse reflection depends only on the location of the liquid's surface, independent of the liquid's dielectric constant.

Basic Configuration





www.autrol.com Duon System Co., Ltd.

ALT-6100 Guided Wave Radar Level Transmitter

Features

- Measures accurately on materials with dielectric (dK) as low as 1.4
- Guided wave radar measurement for up to 3.0 mm accuracy
- Measures level and interface on challenging applications including foam
- Trouble-free operation since the transmitter is virtually unaffected by dust, vapor, interfering obstacles, and turbulence. It is even suitable for small or oddly shaped tanks

Interface Detection

Applications

- Oil, gas and refining
- Chemical and petrochemical
- Power
- Pulp and paper
- Water and sewage treatment
- Food and beverage
- Pharmaceutical



TIME

Specification		
Measuring range	0.15~22.86m(0.5 to 75 ft)	
	Туре	Analog 4 to 20mA with Hart digital signal
Output	Loop Resistance	250~550 Ω
	Diagnostic Alarm	Adjustable 3.78, 21.1mA
Power	11.9~45VDC	
Operation temperature	-40 to + 80 o C	
Accuracy	+/- 3mm	
Response Time	< 1second	
Warm-up Time	< 5 seconds	
Process Dielectric Effect	< 0.3 inch within selected range	

1 Ordering Information

Model	Description					
ALT6100	Guided Wave Radar Level Tra	nsmitter				
Code	Measurement					
-L	Level					
Code	Probe Type					
1F	Single Flexible Rod Probe	0.15~20m				
1R	Single Rigid Rod Probe	0.6~6m				
2F	Twin Flexible Rod Probe	0.6~6m				
2R	Twin Rigid Rod Probe	0.6~6m				
CX	Coaxial Probe	0.6~6m				
Code	Process Connection	0.0 011				
A21	2" ANSI, #150					
A23	2" ANSI, #300					
A26	2" ANSI, #600					
A29	2" ANSI, #900					
A31	3" ANSI, #150					
A33	3" ANSI, #150 3" ANSI, #300					
A36	3" ANSI, #600					
A39	3" ANSI, #900					
A39 A41	4" ANSI, #150					
A41 A43	4" ANSI, #150 4" ANSI, #300					
A43 A46	4" ANSI, #500 4" ANSI, #600					
A40 A49	4" ANSI, #800 4" ANSI, #900	Flange				
J51	JIS 50A, 10K					
J52	JIS 50A, 10K JIS 50A, 20K					
J81	JIS 80A, 20K JIS 80A, 10K					
J82						
	JIS 80A, 20K					
J10	JIS 100A, 10K					
J11	JIS 100A, 20K					
J15	JIS 150A, 10K					
J16	JIS 150A, 20K					
J20	JIS 200A, 10K					
J21	JIS 200A, 20K					
TN1	1 1/2" NPT					
TN2	1" NPT	Thread				
TG1	G 1 1/2"					
TG2	G 1"					
S	Special*					
Code	Process Temperature / Pressur	e				
S		Standard				
Н		High Temperature				
HP		High Temperature & High Pressure				
Code		Material of Construction : Process Connection / Probe				
S		304 SST				
Т	316/316L SS					
Н	HAST-C*					
Μ	Monel*					



ALT-6100 Ordering Information

Code	O-ring Material
V	Viton
E	EPDM
К	Kalrez
В	Buna-N
Code	Hazardous Location Certifications
-K0	Maker Standard (Waterproof:IP67)
-K1	KOSHA Flameproof Approval
Code	Option
M1	LCD Indicator
LP	Lightening Protector
BA	Stainless Steel Bracket (Angle Type with SST Bolts)
BF	Stainless Steel Bracket (Flat Type with SST Bolts)
ST	Stainless Steel Housing
Code	Probe Length
$-\Box\Box\Box\Box$ (with unit)	Probe Length (meter/ft/mm/inch)
Code	Remote Housing Cable
-N	NON
-ROOOO(with unit)	Remote Housing Cable (meter/ft/mm/inch)*

Example : ALT6100-LCXA31STV-K1M1BA-2.5m-R4m

Coaxial Probe, 3"ANSI #150 Flange, Standard Temp/Pressure, Material of Construction 316 SST, Viton O-ring, LCD Indicator, Angle Bracket, Probe Length 2.5 meter, Remote Housing Cable 4 meter KOSHA Flameproof Approval

Note : "*" consult manufacturer before order