



# ALT 6100

## Smart GWR Level Transmitter



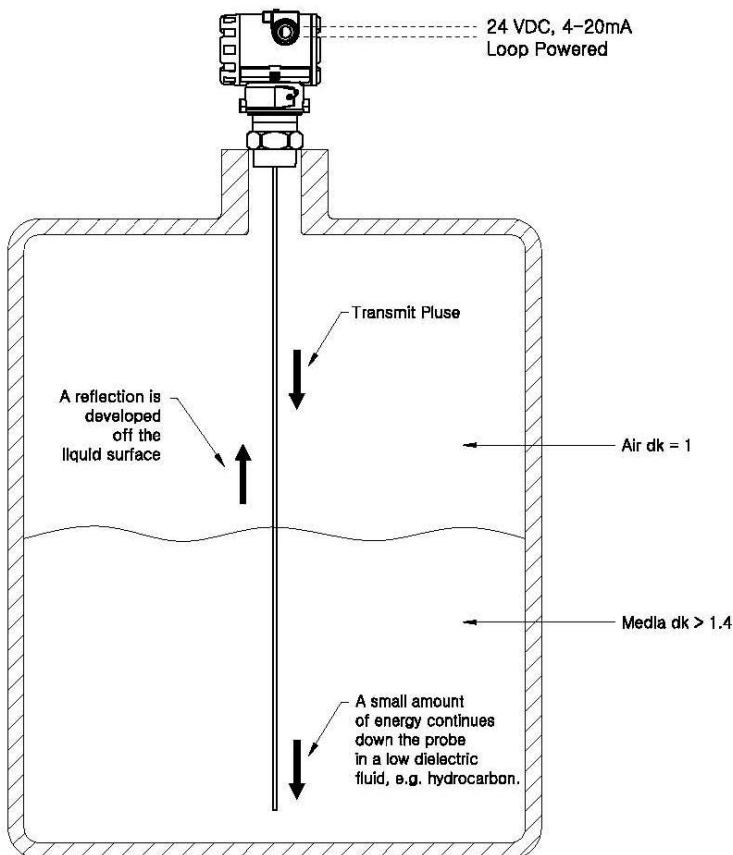
LEVEL



## 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



# ALT-6100 Guided Wave Radar Level Transmitter

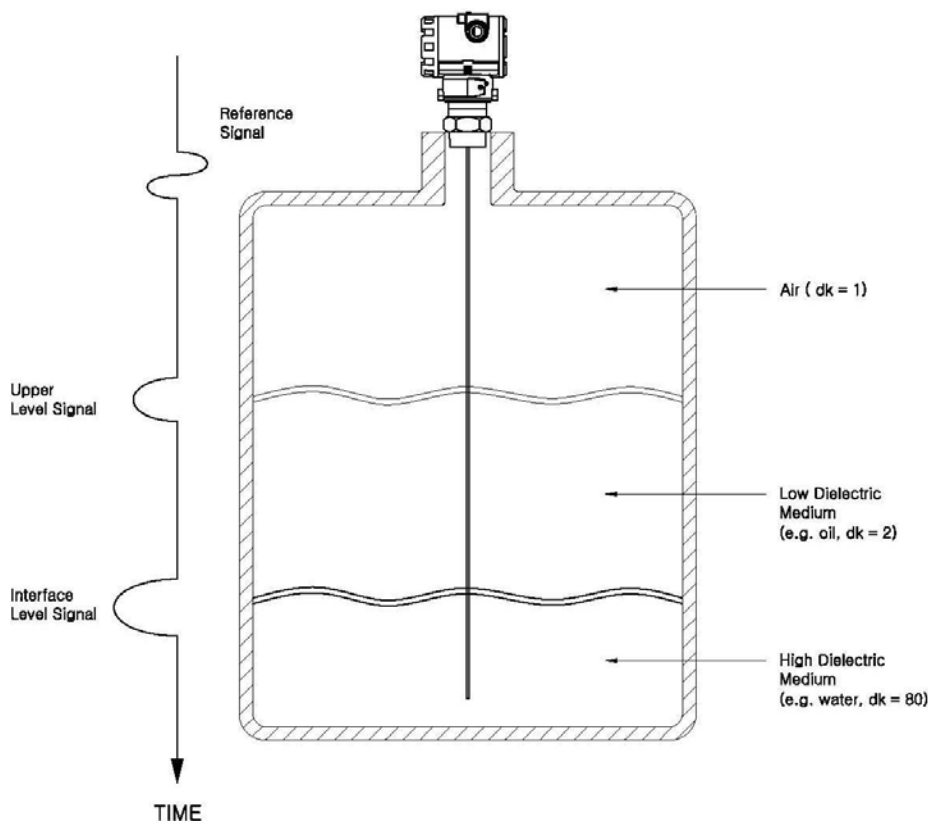
## Features

- Measures accurately on materials with a 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

## Applications

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

## Interface Detection



## Specification

Measuring range	0.15~22.86m(0.5 to 75 ft)	
Output	Type	Analog 4 to 20mA with Hart digital signal
	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	

## ALT-6100 Ordering Information

### 1 Ordering Information

Model	Description		
ALT6100	Guided Wave Radar Level Transmitter		
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		
A21	2" ANSI, #150	Flange	
A23	2" ANSI, #300		
A26	2" ANSI, #600		
A29	2" ANSI, #900		
A31	3" ANSI, #150		
A33	3" ANSI, #300		
A36	3" ANSI, #600		
A39	3" ANSI, #900		
A41	4" ANSI, #150		
A43	4" ANSI, #300		
A46	4" ANSI, #600		
A49	4" ANSI, #900		
J51	JIS 50A, 10K		
J52	JIS 50A, 20K		
J81	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		Thread
TN2	1" NPT		
TG1	G 1 1/2"		
TG2	G 1"		
S	Special*		
Code	Process Temperature / Pressure		
S	Standard		
H	High Temperature		
HP	High Temperature & High Pressure		
Code	Material of Construction : Process Connection / Probe		
S	304 SST		
T	316/316L SS		
H	HAST-C*		
M	Monel*		

## ALT-6100 Ordering Information

Code	O-ring Material
V	Viton
E	EPDM
K	Kalrez
B	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
-□□□...□(with unit)	Probe Length (meter/ft/mm/inch...)
Code	Remote Housing Cable
-N	NON
-R□□□...□(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,  
The 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

# Customer Service and Support



TEKMATION LLC reserves the right to change the designs and/or materials of its products without notice. The contents of this publication are the property of TEKMATON and cannot be reproduced by any other party without written permission. All rights reserved. Copyright © 2016 TEKMATON LLC  
DOC # AUTROL/MR/181228/AP13100/A  
TEKMATION LLC



[www.autroltransmitters.com](http://www.autroltransmitters.com)

Autrol is a fully owned subsidiary of TEKMATON LLC. We offer our customers a comprehensive range of products and solutions for process, power, and oil and gas industries. Autrol provides process measurement and control products for Flow, Level, Temperature and Pressure measurement, Control valves and Analyzer systems. We are present in 15 locations globally and are known for our knowledge, innovative solutions, reliable products, and global presence.

## **Autrol Corporation Of America**

796 Tek Drive, Crystal Lake, IL 60014, USA

Tel: +1 847-857-6062, +1 847-779-5000 Fax: +1 847-655-6062

Email: [info@autroltransmitters.com](mailto:info@autroltransmitters.com)

[www.autroltransmitters.com](http://www.autroltransmitters.com)