

# 80G Radar Level Transmitter

GaMicos

## GLT742

### PRODUCT OVERVIEW

80G radar level transmitter refers to frequency-modulated continuous-wave (FMCW) radar series operating at 76-81GHz, supporting four-wire and two-wire system. It is a kind of high accuracy level measurement instrument, it is suitable for various liquids and material, including the following special applications like volatile, easy to crystallize, easy to corrode, high temperature and pressure, etc.



### CHARACTERISTICS

**High accuracy:** Using advanced radar technology, it can realize high accuracy level measurement, and the margin of error is in millimeters.

**Wide working range :** suitable for liquid level measurement of various liquids, including special working conditions such as high temperature, high pressure, volatile, easy to crystallize and easy to corrode, etc.

**High reliability:** Using advanced signal processing algorithm and anti-interference technology, it can effectively resist external interference and improve the reliability and stability of measurement.

**Easy to install and maintenance :** 80G radar level transmitter uses non contact measurement principle, no need to touch measured medium directly, easy to install and maintenance.

**High durability :** The 80G radar level gauge is made of high-strength materials, has good corrosion resistance and shock resistance, and can work stably for a long time in harsh environment.

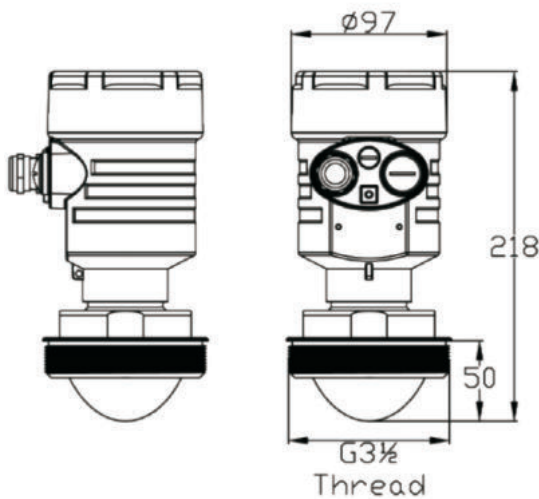
### APPLICATION

- Coal bunker powder
- Grain storage
- Bitumen storage tank
- Petrochemical
- Environmental monitoring

## TECHNICAL PARAMETERS

Transmit	76GHz~81GHz
Measurement range	0.08 m ~30m(Liquids) : 0.3 m~60m : 0.6m~120m
Accuracy	±1mm
Beam angle	3°
Dielectric constant	>=2
Power supply	15~28.0VDC · 2-wire
Signal output	4~20mA, RS485
Fault output	3.8mA, 4mA, 20mA, 21mA, keep the same output when fault occurs
Field Operations/programming	128×64 Dot matrix display/4 buttons Configurable host computer setting software
Working temperature/humidity	-40~85℃/≤95%RH
Housing shell material	Aluminum alloy
Antenna type	Lens antenna
Process pressure	-0.1~20MPa
Product dimension	Ø100*270mm
Electrical interface	M20*1.5
Recommended wire	AWG18 or 0.75mm <sup>2</sup>
Protection grade	IP68
Explosion-proof grade	ExdialICT6
Installation method	Thread or flange
Net weight/gross weight	2.480Kg/2.995Kg
Box size	370*270*180mm

## DIMENSION



## ORDERING GUIDE

GLT742										
Code		<b>Sensor type</b>								
P		Standard								
F		Explosion type								
Code		<b>Housing shell/Protection grade</b>								
L		Aluminum alloy/IP68								
G		Aluminum alloy, double chamber/IP67								
Y		Speical needs								
Code		<b>Antenna type</b>								
1		Lens antenna/PTFE								
3		Anti-corrosion type								
Code		<b>Process interface</b>								
G		Thread G3.5								
B		Flange DN80 PN6								
C		Flange DN100 PN6								
K		Flange DN100 PN6 universal type								
Y		Special needs								
Code		<b>Electronic unit</b>								
2		Two-wire (4~20) mA 24VDC/HART								
3		Four-wire (4~20) mA 220V AC								
4		Four-wire RS485 MODBUS-RTU								
Y		Special needs								
Code		<b>Electrical interface</b>								
M		M20*1.5								
N		NPT1/2								
Code		<b>Material</b>								
L		Liquids								
S		Solid								
D		Dust								
Code		<b>Range</b>								
1		(0~30)m								
2		(0~60)m								
3		(0~120)m								
Code		<b>Special needs</b>								
Y		Special needs								
GLT742	P	L	3	C	4	M	S	2	Y	