

MG8900 SERIES NON-CONTACT RADAR LEVEL TRANSMITTER

MG8900 series non-contact radar transmitter adopts advanced signal processing technology, which is derived from unique echo processing technology to provide intelligent echo processing process. The measurement results with high repeatability, rapidity and reliability are obtained.

A feature of this series of radars is automatic suppression of false echoes. Echo processing technology can automatically detect and suppress false echoes from obstacles in containers. This function can be realized through local interface or through HART and unique software communication with at least two parameters.

Through radar measurement technology, measurement of non-contact and maintenance free is realized. As the transmission of microwave signal does not require medium, it is not affected by steam, pressure, dust or temperature in the process.



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PRODUCT DATASHEET

MG-0801-00101, VERSION LA-02
APR. 2025

MG8900 SERIES

MEASUREMENT PRINCIPLE

Radar measurement technology can measure the time from the transmitted signal to the returned signal to calculate the distance and level.

Radar transmits at the speed of light without carrier media. Pulse radar transmits microwave from antenna at solid frequency, which reflects the interface between two materials with different dielectric constant (atmosphere and medium being monitored). The echo is detected by a receiver and the transmission time is used to calculate the level.

The reflected radar waves are digitally converted to generate echo patterns. The distance from the medium surface to the instrument reference point is determined by analyzing the echo shape.

The FMCW (continuous frequency modulation wave) radar instrument can transmit microwave to the surface of the medium and continuously modulate the frequency. At the same time, the receiver receives continuously, and the frequency difference between the transmitter and the receiver is proportional to the distance to the material.

ADVANTAGES

- The graphical local interface (LUI) makes the operation easy to understand, and the quick start wizard is used to realize the plug and play settings. LUI display echo image is used for diagnosis;
- Communication by HART or PROFIBUS-PA;
- The minimum blind area is only 50mm to the end of the horn;
- It applies to large range (100m) and harsh working conditions;
- Simple collimator improves signal quality from inclined solid surface;
- 120GHz high frequency allows small speakers to be installed on small mounting tubes;
- On site intelligent signal processing improves measurement stability, and automatic false echo suppression function eliminates fixed interference.

APPLICATION

MG8900 non-contact radar level transmitter is applicable to liquid level measurement in the following industrial fields:

- Pulp and Paper Industry
- Chemical and Petroleum Industry
- Oil and Gas Industry
- Pharmaceutical Factory
- Food and Beverage Industry
- Water Treatment and Sewage Treatment
- Electric Power Industry
- Machinery and Metallurgical Industry

PORTFOLIO

MG8925 Radar Level Transmitter (Liquid)

MG8925 is a liquid level transmitter of two-wire, 26GHz pulse radar, which can continuously measure liquid and slurry in storage tanks and process tanks and adapts to high temperature and high pressure condition, with a measuring range of 20m.

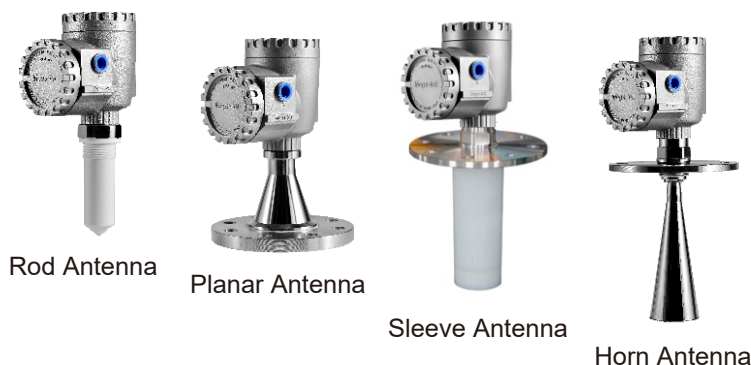
The graphical local user interface ensures convenient operation of settings through quick start wizard and echo map display for diagnosis. You only need to set a few parameters to use the Quick Start Wizard to apply to most applications.

The 26GHz frequency produces a very narrow, focused beam, so that a smaller speaker that is insensitive to obstacles in the container can be used.

CHARACTERISTIC

- The graphical local interface (LUI) makes the operation easy to understand, and the quick start wizard is used to realize the plug and play settings. LUI display echo image is used for diagnosis;
- Easy to install and start
- The frequency is up to 26GHz, high frequency and signal-to-noise ratio are used, which is the best choice for low dielectric constant media;
- With advanced microprocessor and unique echo processing technology, it can be applied to various complex working conditions and accurate debugging;
- Multiple antenna types is optional;
- MODBUS 485/4~20mA/HART/Bluetooth.

PRODUCT STRUCTURE



- The rod antenna is used for small diameter, small tank and corrosion occasions;
- The plane antenna is used for anti-corrosion, steam, dewing large tanks, etc;
- Sleeve antenna, externally lined PFA antenna is used for anti-corrosion, high temperature, crystal hanging, etc;
- The horn antenna is used under normal working conditions.

APPLICATION



- Liquid storage tank, process vessel with agitation, liquid easy to generate steam, high temperature, pressure vessel.
- It is used to measure the liquid level and slurry level in the storage tank or process tank. It is suitable for severe working conditions such as corrosion situation. The measuring range is 20m (depending on the type of antenna).

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MG8900 SERIES

MG8926 Radar Level Transmitter (Solid)

MG8926 is a radar level transmitter of two-wire, 26GHz pulse, which is used for continuous measurement of solids, including high dust and 200 °C high temperature applications, with a measuring range of 30m.

The graphical local user interface ensures convenient operation of settings through quick start wizard and echo map display for diagnosis. You only need to set a few parameters to use the Quick Start Wizard to apply to most applications.

The 26GHz frequency produces a very narrow, focused beam, so that a smaller speaker that is insensitive to obstacles in the container can be used.

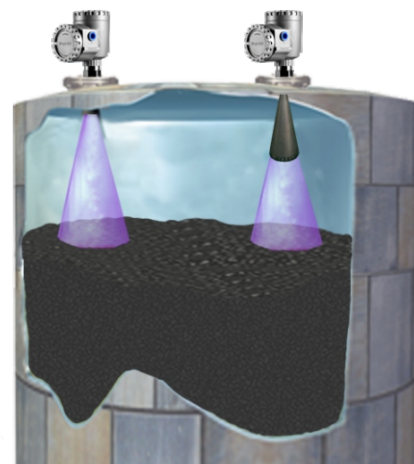
CHARACTERISTIC

- The graphical local interface (LUI) makes the operation easy to understand, and the quick start wizard is used to realize the plug and play settings. LUI display echo image is used for diagnosis;
- The frequency is up to 26GHz, high frequency and signal-to-noise ratio are used to accurately measure low dielectric constant medium of powder type;
- With advanced microprocessor and unique echo processing technology, it can be applied to various complex working conditions and accurate debugging;
- Multiple antenna types is optional;
- MODBUS 485/4~20mA/HART/Bluetooth.

PRODUCT STRUCTURE



APPLICATION



- Cement powder, plastic particle/powder, grain, flour, coal, coke, etc.

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MG8900 SERIES

MG8950 RADAR LEVEL TRANSMITTER (80GHz)

MG8950 is a FM CW radar level transmitter of two-wire, 80GHz continuous measurement pulse, which is used for high dust and high temperature applications, and large range measurement.

80GHz FM CW radar uses a wide sweep bandwidth and the FPGA chip hardware implements the fast Fourier transform calculation. The R&D personnel creatively apply the diffraction wave separation and spectrum thinning algorithm to achieve the measurement accuracy of 1mm within 50 meters.



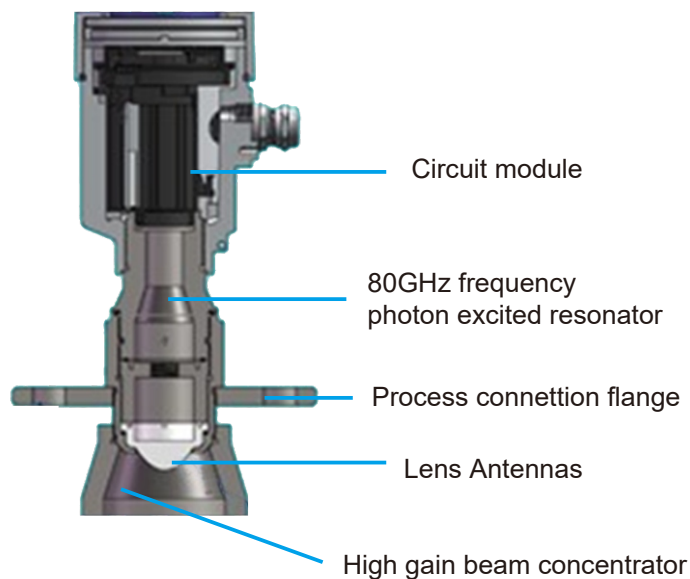
Thread Antenna
Minimum 3/4"



Flange Antenna

- The stainless steel shell is safe and reliable;
- Double cavity shell structure separates the circuit module from the wiring to solve the problem of damage of the circuit module that is caused by water ingress from the wiring terminal;
- Anti interference and lightning protection terminal blocks.

PRODUCT STRUCTURE



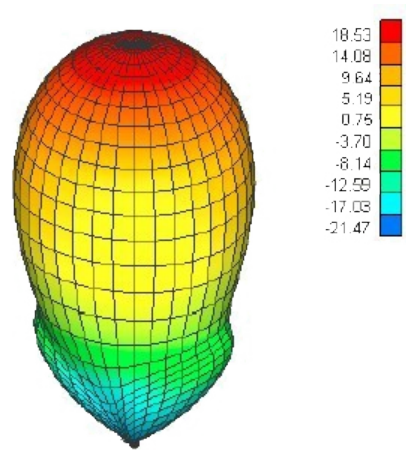
- Under the combined action of lens and concentrator, the signal is enhanced and focused to form an interference free beam pattern and the measurement performance is improved better.
- Purging device can solve the hanging material problem that caused by water vapor condition of high dust and high viscosity, so that to realize convenient maintenance on-site.
- The unique lens structure makes it have ideal measurement stability and environmental anti-interference ability without any purging device in the industrial environment of strong adhesion and dust.
- Plentiful wave pattern processing and algorithm can perfectly face the working conditions such as mixing, strong volatilization and large dust.



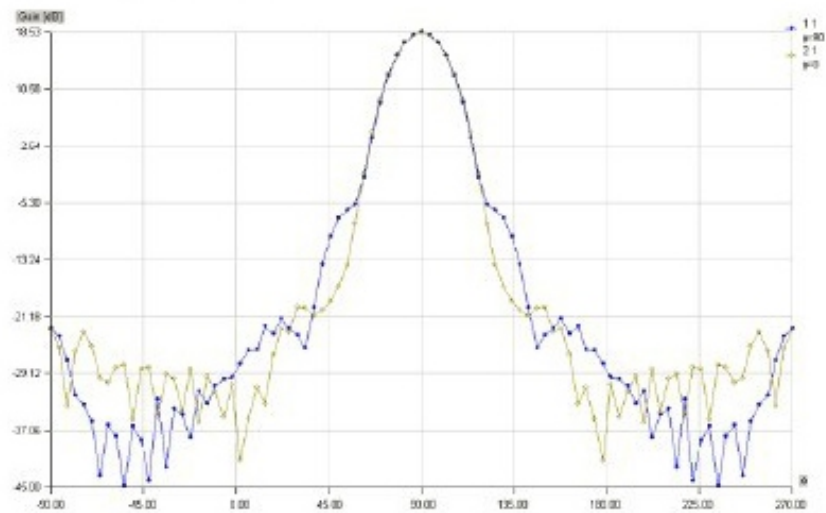
- Equipped with backlight display
- Bar chart, percentage, logo, Engineering unit, current value

Core Technology

3D Directivity Diagram of Lens Antenna Feed

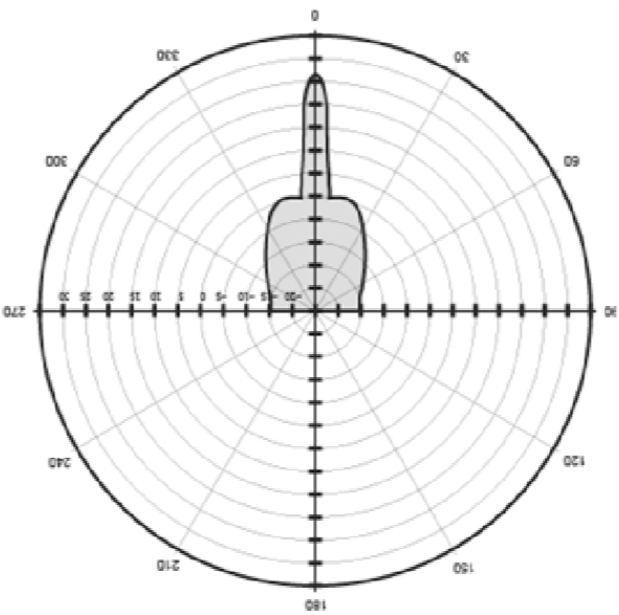


Sectional Drawing of Lens Antenna Feed

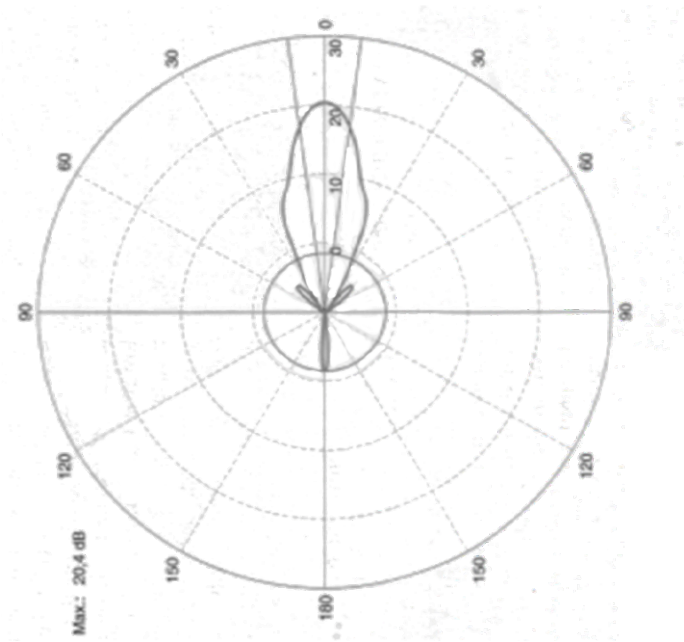


● The lens generates, enhances and focuses microwave signals to form a beam pattern without side lobes.

Beam Pattern of 80GHz Lens Antenna



Beam Pattern of 26GHz Antenna



- Extremely narrow beam, transmitting energy is very concentrated. Lens antenna has strong detection ability, penetration ability and reliability.
- Large emission angle, more side lobes, and obvious signal attenuation. In the long measuring range, the medium is seriously volatilized and the hanging material obviously cannot be measured normally.

SYSTEEM TOPOLOGY

Intrinsically Safe Wiring Diagram

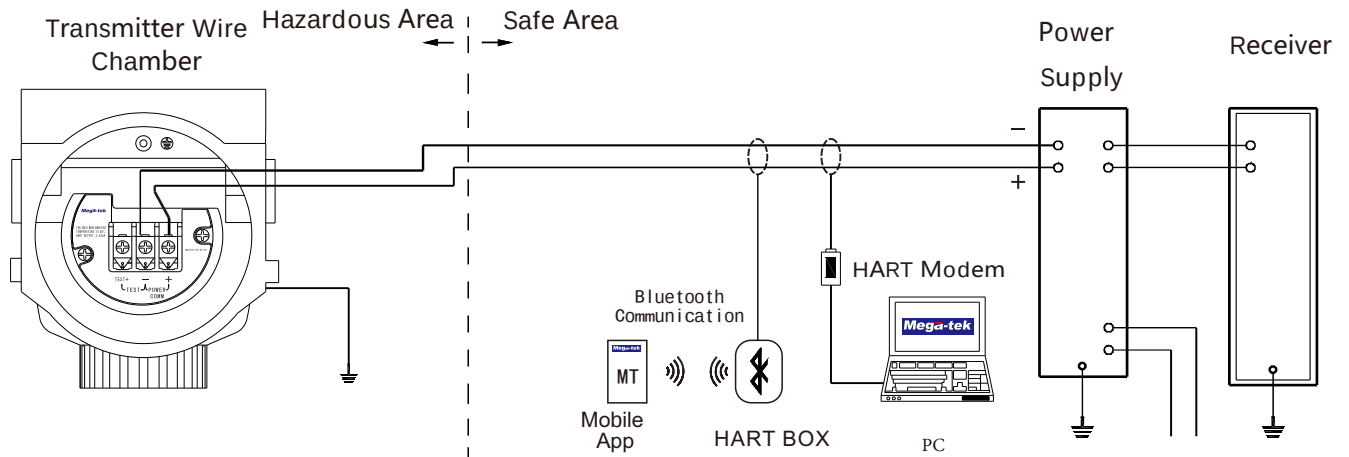
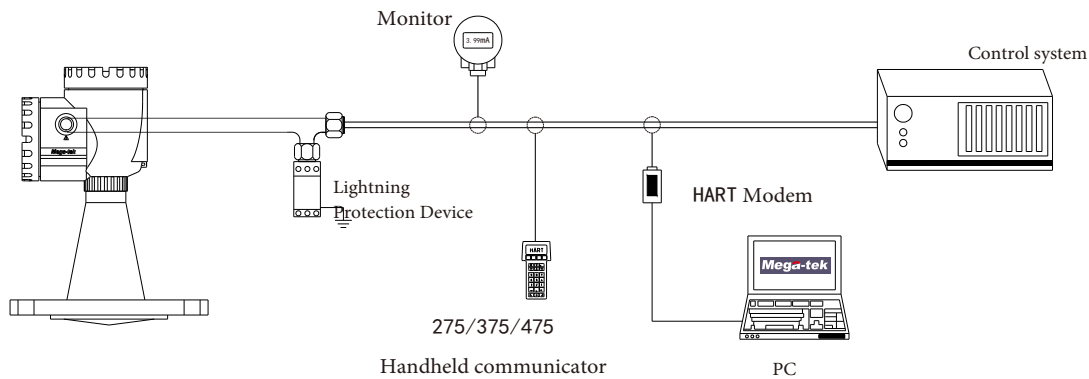


Figure 5

HART Wiring Diagram



Input and Output

Two wire loop power supply.

Input voltage: 14.5~30VDC.

The measured data and the superimposed HART digital signal is transmitted as 4~20mA analog signal together. HART signals can be used for multiple outputs.

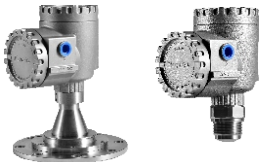
Transmitters with intrinsic safety or flameproof certification are available. For intrinsically safe applications, barriers such as Zener barriers must be used for isolation.

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SPECIFICATIONS

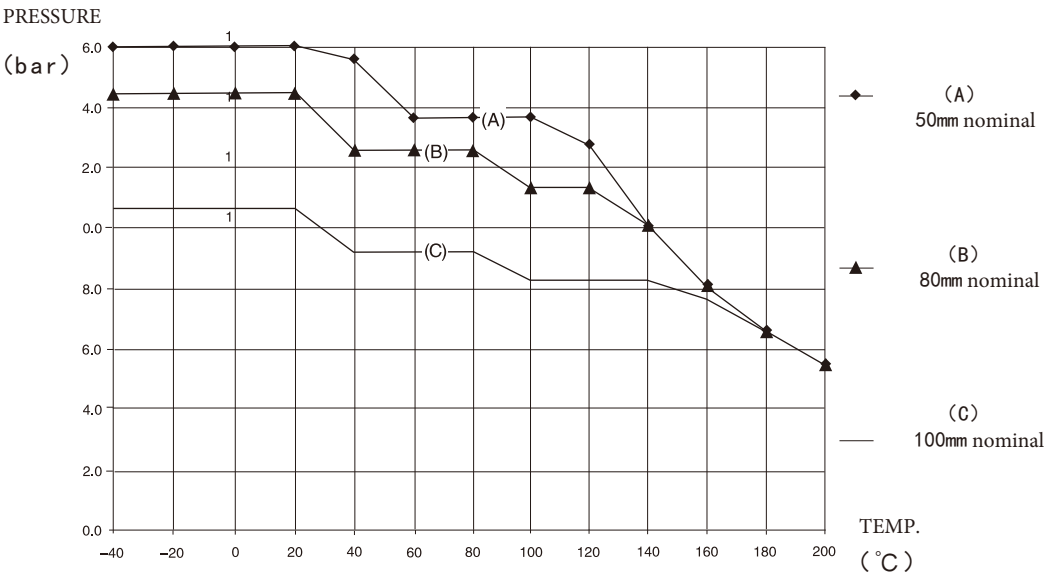
MG8925 High Frequency Liquid Radar Transmitter	MG8926 High Frequency Solid Radar Transmitter	MG8950 High Frequency Liquid/ Solid Radar Transmitter
		
Conditions of liquid, stirred storage tank, process tank, crystallization, dewing liquid with vapor or high temperature, low dielectric constant	Solid silo, large range strong powder solid silo	In conditions of Strong powder, steam, multiple agitation, high temperature and high pressure reactor, large range can ensure high precision
500~20000mm 500mm to the end of the horn	500mm to the end of the horn 2" horn: 10000mm 3" horn: 20000mm 4" horn: 30000mm Parabolic antenna: 70000mm	350~150000mm
Dielectric constant $\epsilon > 1.6$ Depending on horn antenna and application requirements	Dielectric constant $\epsilon > 1.6$	Dielectric constant $\epsilon > 1.4$
26.0GHz	26.0GHz	80GHz (Beam angle 1°)
Accuracy ± 3 mm	Accuracy ± 10 mm	Accuracy ± 0.5 mm
Maximum to 40 bar, based on different process connection and antenna type		maximum to 32MPa
Environment temp.: -40~80°C Process temp.: -40~260°C Depending on the antenna type		Environment temp.: -40~85°C Process temp.: -196~1200°C
4~20mA/HART RS485, FF PROFIBUS-DP, PROFIBUS-PA		
4~20mA Return Circuit 24~30VDC (The minimum voltage depends on the total circuit) 220VAC (Optional)		
Graphical on-site interface, including quick start wizard and echo map display		
2*M20x1.5 or 2*1/2NPT		
The rod antenna is used for small diameter, small tank and corrosion occasions The horn antenna is used under normal working conditions The plane antenna is used for anti-corrosion, steam, dewing large tanks, etc The plane antenna is used for anti-corrosion, steam, dewing large tanks, etc Flange: 304 or customized Size (normal horn size): 1.5"(40mm)、2"(49mm)、3"(75mm)、4"(98mm)	Universal flange, purging and dust cover can be equipped Flange: 304 or customized Size (normal horn size): 1.5" (40mm) 2" (49mm) 3" (74.5mm) 4" (97.5mm)	Horn Lens Antenna Water-drop Lens Antenna High temp.convex lens antenna
1-1/2"NPT or 2"NPT Genneral flange specifications: 2" (50mm) 3" (80mm)	Genneral flange specifications: 2" (50mm) 3" (80mm) 4" (100mm)	M48*2, M20*1.5 Genneral flange specifications: 2" (50mm) 3" (80mm) 4" (100mm) 6" (150mm)

IP67

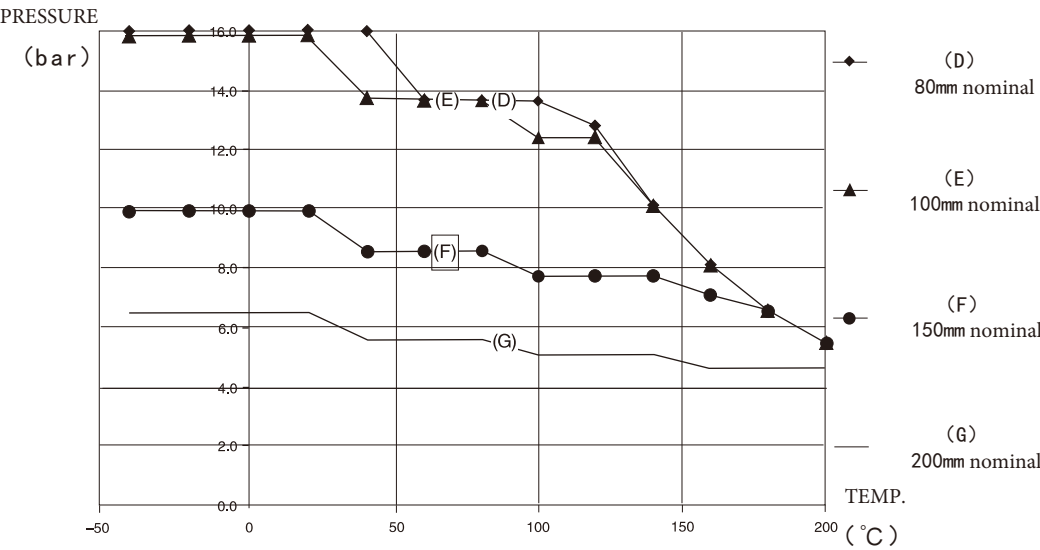
Explosion-proof, Intrinsically Safe, Dust Ignition Protection

CHARACTERISTIC CURVE

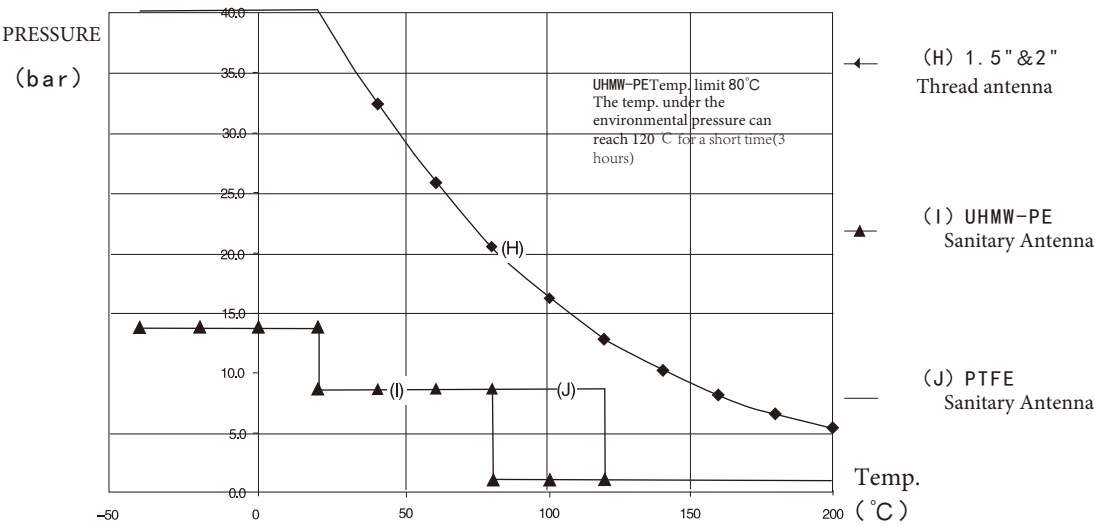
PTFE rod antenna, integrated gasket, 150#, PN16 ,Flange 22452, 316SST, FF



Horn antenna or waveguide tube, PTFE transmitter, 150#, PN16 ,Flange 22452, 316SST, FF



Threaded and sanitary process connections, 15" and 2"NPT, BSP, G, sanitary 2",3',4



CERTIFICATIONS



FM American Industry Association Certification

XP/I/1/ABCD/T6;DIP/III, III/1/EFG/T6
IS/I/1/CD/T4-ELE0001/A
IS/I/1/ABCD/T4-ELE1036
NI/I/2/ABCD/T4
TYPE4X



Certification of National Instrument Explosion-Proof
Safety Supervision and Inspection Station

ExiaIICT1~4
ExdIICT5



CSA Canadian Standards Association Hazardous Locations Certification

XP/I/1/ABCD/T6;DIP/II, III/1/EFG/T6
IS/I/1/CD/T4-ELE0001
NI/I/2/ABCD/T4
TYPE 4X



ATEX

Flame-Proof: II 1/2GD EExd IIC T6 T80°C; 02 ATEX 132659
Intrinsic Safe: II 1/2GD EExia IIB T6 T80°C; 02 ATEX 132658
Intrinsic Safe: II 1/2GD EExia IIC T4 T80°C; 02 ATEX 132658

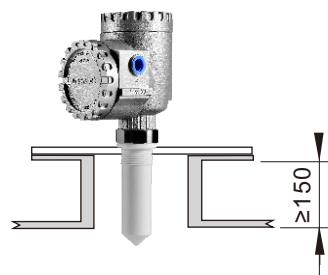
Special Items of Security Applications (X)

According to clause 6.4.12 of EN 50020 standard, the device cannot withstand 500V voltage test. This clause must be observed during installation.

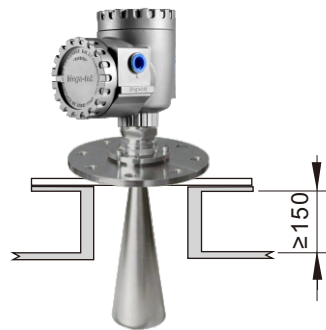
When used in potentially explosive atmospheres where equipment category I devices are required, appropriate measures must be taken to prevent electrostatic discharge.

INSTALLATION AND OUTLINE DIMENSION

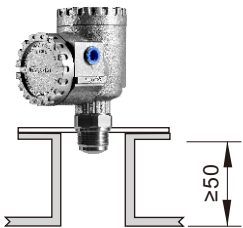
Installation at Nozzle



MG8925

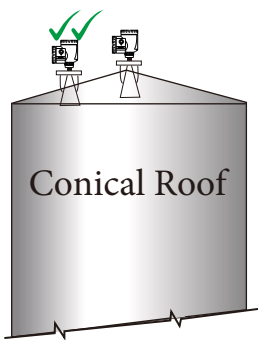


MG8926

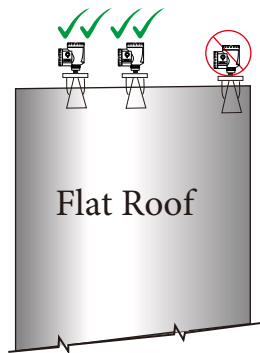


MG8950

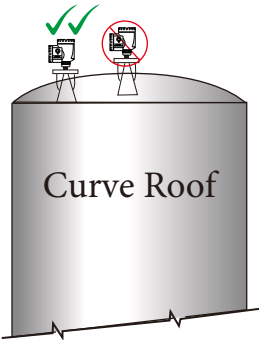
Installation on Vessel



Conical Roof



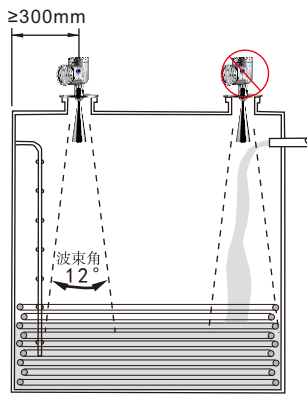
Flat Roof



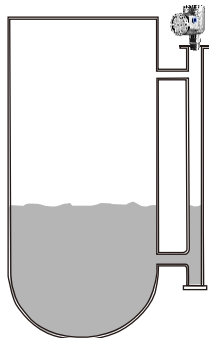
Curve Roof

Multiple echoes will be formed when transmitter is installed in the middle of the curve roof.

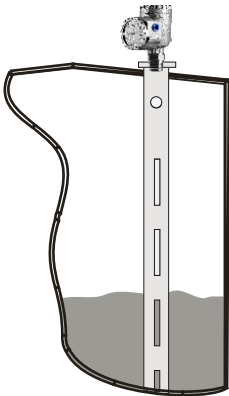
其他



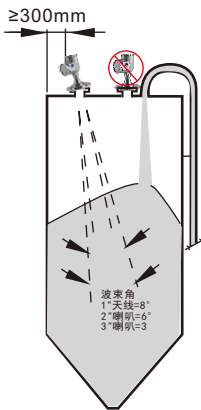
Installtion on Tank
Keep Away From The Feed Inlet



Installation on Bypass Pipe



Installation on
Waveguide Tube



Emission Angle
Keep Away From The Feed Inlet

PRODUCT DATASHEET

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MG8900 SERIES

MODEL SELECTION

MODEL CODE MG8900 SERIES RADAR LEVEL TRANSMITTER

MODEL	PRODUCT SERIES
MG8925	ROD ANTENNA RADAR LEVEL TRANSMITTER
CODE	ANTENNA TYPE
E	Common rod antenna
S	High- temperature rod antenna
CODE	ANTENNA TYPE/EXTENSION LENGTH/MATERIAL (Exact extension pipe length must provided)
1A	100mm rod antenna/Non/PVDF
2A	200mm rod antenna/Non/PVDF
CODE	PROCESS CONNCTION (THREAD/FLANGE)
2N	1-1/2" NPT (ASME B1.20.1)
3N	2" NPT (ASME B1.20.1)
4N	3" NPT (ASME B1.20.1)
5N	1-1/2" G (ENISO 228-1)
6N	2" G (ENISO 228-1)
7N	3" G (ENISO 228-1)
1A	DN 50 PN 10 / 16 EN 1092 -1 RF
3A	DN 80 PN 10 / 16 EN 1092 -1 RF
5A	DN 100 PN 10 / 16 EN 1092 -1 RF
7A	DN 125 PN 10 / 16 EN 1092 -1 RF
9A	DN 150 PN 10 / 16 EN 1092 -1 RF
1B	2" 150 LB ASME B16.5 RF
3B	3" 150 LB ASME B16.5 RF
5B	4" 150 LB ASME B16.5 RF
7B	5" 150 LB ASME B16.5 RF
9B	6" 150 LB ASME B16.5 RF
1C	DN 50 PN 40 EN 1092 -1 RF
3C	DN 80 PN 40 EN 1092 -1 RF
5C	DN 100 PN 40 EN 1092 -1 RF
7C	DN 125 PN 40 EN 1092 -1 RF
9C	DN 150 PN 40 EN 1092 -1 RF
1D	2" 300 LB ASME B16.5 RF
3D	3" 300 LB ASME B16.5 RF
5D	4" 300 LB ASME B16.5 RF
7D	5" 300 LB ASME B16.5 RF
9D	4" 300 LB ASME B16.5 RF
X	CUSTOMISED
CODE	SIGNAL OUTPUT
8	4~20mA DC+HART Signal output LCD display
9	PROFIBUS-PA

PRODUCT DATASHEET

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MG8900 SERIES

CODE	ELECTRICAL INTERFACE (2 by default)
A	1/2"NPT
B	M20×1.5
X	Others
CODE	HAZARDOUS AREA CERTIFICATION
1	Common
8	Flame proof
9	Intrinsic safety
X	Others
CODE	ADDITIONAL OPTIONS ¹
C	Hygienic collar
J	Metal plug
X	Nil
CODE	MEASURING RANGE in (mm)
H	XXXX

Model Eg.: MG8925-R1A3A8A9X H3000

☐ Multiple items can be selected according to working conditions

Model Discription:

MG8925-Radar level transmitter;

R-Commn rod antenna;

1A-100mm Common rod antenna/Non/PVDF;

3A-Process connection: DN80 PN16;

8-Signal output: 4 ~ 20mADC+HAR;

A-Electrical interface 1/2 "NPT;

9-Intrinsic safety;

H3000- Measuring range 3000mm

- Process connecting flange sealing surface is RF by default. For other specifications, if the caliber and pressure are the same, this type spectrum code can also be used instead, but special notes is in need.
- Power supply voltage is 24V by dafault, other requirements need to be customised.

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MG8900 SERIES

MODEL SELECTION

MODEL CODE MG8900 SERIES RADAR LEVEL TRANSMITTER

MODEL	PRODUCT SERIES
MG8925	HORN ANTENNA RADAR LEVEL TRANSMITTER
CODE	ANTENNA TYPE
R	Common horn antenna
H	High- temperature rod antenna
CODE	ANTENNA TYPE/EXTENSION LENGTH/MATERIAL
2A	40 mm horn antenna/Non /316 L
2B	50 mm horn antenna/Non / 316 L
2C	80 mm horn antenna/Non/ 316 L
2D	100 mm horn antenna /Non /316 L
2E	125 mm horn antenna /Non /316 L
2F	150 mm horn antenna /Non /316 L
3A	40 mm horn antenna / 100 mm extension/316 L
3B	50 mm horn antenna / 100 mm extension/316 L
4C	80 mm horn antenna /100 mm extension /316 L
4D	100 mm horn antenna /100 mm extension/316L
4E	125 mm horn antenna / 100 mm extension /316 L
4F	150 mm horn antenna / 100 mm extension /316 L
CODE	PROCESS CONNECTION
1B	DN 50 PN 10 /16 EN 1092 -1 RF
2B	DN 80 PN 10 /16 EN 1092 -1 RF
3B	DN 100 PN 10 /16 EN 1092 -1 RF
4B	DN 125 PN 10 /16 EN 1092 -1 RF
5B	DN 150 PN 10 /16 EN 1092 -1 RF
6B	2 " 150 LB ASME B16.5 RF
7B	3 " 150 LB ASME B16.5 RF
8B	4 " 150 LB ASME B16.5 RF
9B	5 " 150 LB ASME B16.5 RF
10B	6 " 150 LB ASME B16.5 RF
1C	DN 50 PN 40 EN 1092 -1 RF
2C	DN 80 PN 40 EN 1092 -1 RF
3C	DN 100 PN 40 EN 1092 -1 RF
4C	DN 125 PN 40 EN 1092 -1 RF
5C	DN 150 PN 40 EN 1092 -1 RF
6C	2 " 300 LB ASME B16.5 RF
7C	3 " 300 LB ASME B16.5 RF
8C	4 " 300 LB ASME B16.5 RF
9C	5 " 300 LB ASME B16.5 RF
10C	6 " 300 LB ASME B16.5 RF
X	Customised

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MG8900 SERIES

CODE	SIGNAL OUTPUT
8	4~20mADC+HART LCD Display
9	PROFIBUS-PA
CODE	ELECTRICAL INTERFACE(2 by default)
A	1/2"NPT
B	M20×1.5
X	Others
CODE	HAZARDOUS AREA CERTIFICATION
1	Common
8	Flame proof
9	Intrinsic safety
X	Others
CODE	ADDITIONAL OPTIONS ¹
C	Hygienic collar
H	Infrared hand operator
J	Metal plug
S	High-performance
X	Nil
CODE	Measuring range i n (mm)
H	XXXX

¹ Multiple items can be selected according to working conditions

Model Eg.: MG8925-R2C2B8A9X H13000

Model Discription :
MG8925-Radar level transmitter;
R-Radar: level transmitter;
2C-80mm: horn antenna/uded to 80mm or 3" nozzle/316L
2B-process connection: DN80 PN16
8-signal output: 4~20mADC+HART
A-Electrical interface: 1/2"NPT
9-Intrinsic safety
H13000-Measuring range: 13000mm.

- Process connecting flange sealing surface is RF by default. For other specifications, if the caliber and pressure are the same, this type spectrum code can also be used instead, but special notes is in need.
- Power supply voltage is 24V by dafault, other requirements need to be customised.

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MG8900 SERIES

MODEL SELECTION

MODEL CODE MG8900 SERIES RADAR LEVEL TRANSMITTER

MODEL	PRODUCT SERIES
MG8925	Sleeve antenna radar level transmitter
CODE	ANTENNA TYPE
P	PFA Sleeve antenna
T	PFA Sleeve antenna with heat sink (high temperature type)
CODE	ANTENNA TYPE/EXTENSION LENGTH/MATERIAL (Exact extension pipe length must provided)
1	80mm Sleeve antenna/Non/316L
X	Others
CODE	PROCESS CONNECTION (Thread/Flange)
1A	DN 50 PN 10 / 16 EN 1092 -1 RF
3A	DN 80 PN 10 / 16 EN 1092 -1 RF
5A	DN 100 PN 10 / 16 EN 1092 -1 RF
7A	DN 125 PN 10 / 16 EN 1092 -1 RF
9A	DN 150 PN 10 / 16 EN 1092 -1 RF
1B	2 " 150 LB ASME B16.5 RF
3B	3 " 150 LB ASME B16.5 RF
5B	4 " 150 LB ASME B16.5 RF
7B	5 " 150 LB ASME B16.5 RF
9B	6 " 150 LB ASME B16.5 RF
1C	DN 50 PN 40 EN 1092 -1 RF
3C	DN 80 PN 40 EN 1092 -1 RF
5C	DN 100 PN 40 EN 1092 -1 RF
7C	DN 125 PN 40 EN 1092 -1 RF
9C	DN 150 PN 40 EN 1092 -1 RF
1D	2 " 300 LB ASME B16.5 RF
3D	3 " 300 LB ASME B16.5 RF
5D	4 " 300 LB ASME B16.5 RF
7D	5 " 300 LB ASME B16.5 RF
9D	6 " 300 LB ASME B16.5 RF
X	Customised
CODE	SIGNAL OUTPUT
8	4~20mA DC+HART LCD Display
9	PROFIBUS-PA

PRODUCT DATASHEET

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MG8900 SERIES

CODE	ELECTRICAL INTERFACE(2 by default)
A	1/2"NPT
B	M20×1.5
X	Others
CODE	HAZARDOUS AREA CERTIFICATION
1	Common
8	Flame proof
9	Intrinsic safety
X	Others ¹
CODE	ADDITIONAL OPTIONS
C	Hygienic collar
J	Metal plug
X	Others
CODE	MEASURING RANGE
H	XXXX

Model Eg.: MG8925-P13A8A9X H6000

☐ Multiple items can be selected according to working conditions

Model Discription:

MG8925-Radar level transmitter;

P-PFA Sleeve antenna;

1-80mm Sleeve antenna/Non/316L

3A-Process connection: DN80 PN16

8-Signal output: 4~20mA DC+HART

A-Electrical interface: 1/2"NPT

9-Intrinsic safety

H6000-Measuring range: 6000mm.

- Process connecting flange sealing surface is RF by default. For other specifications, if the caliber and pressure are the same, this type spectrum code can also be used instead, but special notes is in need.
- Power supply voltage is 24V by default, other requirements need to be customised.

PRODUCT DATASHEET

MG-0801-00101, VERSION LA-02
APR. 2025

MG8900 SERIES

MODEL SELECTION

MODEL CODE MG8900 SERIES RADAR LEVEL TRANSMITTER

CODE	PRODUCT SERIES
MG8925	Planar antenna
CODE	ANTENNA TYPE
F	Full plane type
N	Full plane type (High-temperature type)
CODE	ANTENNA TYPE/EXTENSION LENGTH/MATERIAL (Exact extension pipe length must provided)
6A	Full plane type/Non/PTFE
6B	Full plane type (Hygienic type)
CODE	PROCESS CONNECTION (THREAD/FLANGE)
1A	DN 50 PN 10 / 16 EN 1092 -1 RF
3A	DN 80 PN 10 / 16 EN 1092 -1 RF
5A	DN 100 PN 10 / 16 EN 1092 -1 RF
7A	DN 125 PN 10 / 16 EN 1092 -1 RF
9A	DN 150 PN 10 / 16 EN 1092 -1 RF
1B	2 " 150 LB ASME B16.5 RF
3B	3 " 150 LB ASME B16.5 RF
5B	4 " 150 LB ASME B16.5 RF
7B	5 " 150 LB ASME B16.5 RF
9B	6 " 150 LB ASME B16.5 RF
1C	DN 50 PN 40 EN 1092 -1 RF
3C	DN 80 PN 40 EN 1092 -1 RF
5C	DN 100 PN 40 EN 1092 -1 RF
7C	DN 125 PN 40 EN 1092 -1 RF
9C	DN 150 PN 40 EN 1092 -1 RF
1D	2 " 300 LB ASME B16.5 RF
3D	3 " 300 LB ASME B16.5 RF
5D	4 " 300 LB ASME B16.5 RF
7D	5 " 300 LB ASME B16.5 RF
9D	6 " 300 LB ASME B16.5 RF
X	Customised
CODE	SIGNAL OUTPUT
8	4~20mADC+HART LCD Display
9	PROFIBUS-PA

PRODUCT DATASHEET

MG-0801-00101, VERSION LA-02
APR. 2025

MG8900 SERIES

CODE	ELECTRICAL INTERFACE (2 by default)
A	1/2"NPT
B	M20×1.5
X	Others
CODE	HAZARDOUS AREA CERTIFICATION
1	Common
8	Flame proof
9	Intrinsic safety
X	Others
CODE	ADDITIONAL OPTIONS ¹
C	Hygienic collar
H	Infrared hand operator
J	Metal plug
S	High performance
X	Nil
CODE	MEASURING RANGE in (mm)
H	XXXX

Model Eg.: MG8925-F6A5A8A9X H8000

□ Multiple items can be selected according to working conditions

Model Discription: :

MG8925-Radar level transmitter;

F-Common planar antenna;

6A-Full planar antenna;

5A-Process connection: DN100 PN16;

8-Signal output: 4~20mADC+HART;

A-Electrical interface: 1/2"NPT;

9-Intrinsic safety;

H8000: Measuring range: 8000mm.

- When high performance function is selected, the infrared hand operator is necessary.
- Process connecting flange sealing surface is RF by default. For other specifications, if the caliber and pressure are the same, this type spectrum code can also be used instead, but special notes is in need.
- Power supply voltage is 24V by default, other requirements need to be customised.

PRODUCT DATASHEET

MG-0801-00101, VERSION LA-02
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MG8900 SERIES

MODEL CODE MG8900 SERIES RADAR LEVEL TRANSMITTER

CODE	PRODUCT SERIES
MG8926	Solid radar level transmitter
CODE	CONNECTION BASE
P	Parabolic antenna
H	Horn antenna
CODE	ANTENNA TYPE/EXTENSION LENGTH/MATERIAL (Exact extension pipe length must provided)
2A	80 mm Horn antenna/ Installed on 80 mm or 3 "nozzle/ 316 L
2B	80 mm Horn antenna/ 100 mm Extension / 316 L
3A	100 mm Horn antenna/Installed on 100 mm or 4 "nozzle / 316 L
3B	100 mm Horn antenna/ 100 mm Extension / 316 L
4A	125 mm Horn antenna/Installed on 125 mm or 5 "nozzle / 316 L
4B	125 mm Horn antenna/100 mm Extension / 316 L
5A	150 mm Horn antenna/Installed on 150 mm or 6 "nozzle / 316 L
5B	150 mm Horn antenna/ 150 mm Extension/ 316 L
6A	Parabolic antenna/Installed on 200 mm or 8 " nozzle/ 316 L
6B	Parabolic antenna/Installed on 250 mm or 10 "nozzle / 316 L
X	Customized
CODE	PROCESS CONNECTION
3A	DN 80 PN 10 / 16 EN 1092 -1 RF
5A	DN 100 PN 10 / 16 EN 1092 -1 RF
7A	DN 125 PN 10 / 16 EN 1092 -1 RF
9A	DN 150 PN 10 / 16 EN 1092 -1 RF
3B	3 " 150 LB ASME B16 . 5 RF
5B	4 " 150 LB ASME B16 . 5 RF
7B	5 " 150 LB ASME B16 . 5 RF
9B	6 " 150 LB ASME B16 . 5 RF
3C	DN 200 PN 10 / 16 EN 1092 -1 RF
5C	DN 250 PN 10 / 16 EN 1092 -1 RF
7D	8 " 150 LB ASME B16 . 5 RF
9D	10 " 150 LB ASME B16 . 5 RF
X	Customised
CODE	SIGNAL OUTPUT
8	4~20mA DC+HART LCD Display
9	PROFIBUS-PA

PRODUCT DATASHEET

MG-0801-00101, VERSION LA-02
APR. 2025

MG8900 SERIES

CODE	ELECTRICAL INTERFACE(2 by default)
A	1/2"NPT
B	M20×1.5
X	Others
CODE	HAZARDOUS AREA CERTIFICATION
1	Common
8	Flame proof
9	Intrinsic safety
X	Others
CODE	ADDITIONAL OPTIONS ¹
H	Infrared hand operator
J	Metal plug
P	Purging device
G	Collimator
S	High performance
D1	Dust cover, PTFE, used to 50mm antenna
D2	Dust cover, PTFE, used to 80mm antenna
D3	Dust cover, PTFE, used to 100mm antenna
X	Nil
CODE	MEASURING RANGE in (mm)
H	XXXX

¹ Multiple items can be selected according to working conditions

Model Eg.: MG8926-C3A5A8A9P H13000

说明: MG8926S-Radar level transmitter;

G-Common type;

3A-100mm horn antenna;

5A-Process connection DN80 PN16;

8-Signal output: 4~20mA+HART;

A-Electrical interface: 1/2"NPT;

9-Intrinsic safety;

P-Purging device;

H13000-Measuring range:13000mm.

- When high performance function is selected, the infrared hand operator is necessary.
- Process connecting flange sealing surface is RF by default. For other specifications, if the caliber and pressure are the same, this type spectrum code can also be used instead, but special notes is in need.
- Power supply voltage is 24V by default, other requirements need to be customised.

PRODUCT DATASHEET

MG-0801-00101, VERSION LA-02
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MG8900 SERIES

MODEL CODE MG8900 SERIES RADAR LEVEL TRANSMITTER

CODE	PRODUCT SERIES
MG8950	Radar level transmitter (for measuring liquid)
CODE	RADAR TYPE
3	Compact type (single chamber, max. temperature 150° C)
6	High-performance type (dual chamber, standard lightning protection, reverse polarity protection & anti-interference terminals)
9	Premium type (BV certified)
CODE	HOUSING MATERIAL
C	High-pressure die-cast aluminum housing
K	Stainless steel housing (SS304)
L	Stainless steel housing (SS316L)
X	Other material housing
CODE	ANTENNA & FLANGE MATERIAL
1	SS304+PTFE
3	SS316L+PTFE
5	PP+PTFE
7	PTFE
X	Other materials
CODE	ANTENNA TYPE (LENS STRUCTURE)
E1	Horn type ($T \leq 200^{\circ} \text{C}$, $P \leq 2 \text{MPa}$)
E2	Water-drop type ($T \leq 200^{\circ} \text{C}$, $P \leq 2 \text{MPa}$)
S	High-temperature antenna ($200^{\circ} \text{C} < T \leq 280^{\circ} \text{C}$, $2 \text{MPa} < P < 4 \text{MPa}$ mandatory; high-temperature device optional)
H	High-temperature high-pressure antenna ($T \geq 280^{\circ} \text{C}$ & $P \geq 4 \text{MPa}$ mandatory)
CODE	PROCESS CONNECTION (THREAD/FLANGE)
X1	MF (M) / MF (F)
X2	FF
2A	1-1/2" NPT (ASME B1.20.1)
4A	3.5" NPT (ASME B1.20.1)
5A	1-1/2" G (ENISO 228-1)
7A	3.5" G (ENISO 228-1)
1B	DN 50 PN 10 / 16 EN 1092 -1 RF
2B	DN 80 PN 10 / 16 EN 1092 -1 RF
3B	DN 100 PN 10 / 16 EN 1092 -1 RF
4B	DN 125 PN 10 / 16 EN 1092 -1 RF
5B	DN 150 PN 10 / 16 EN 1092 -1 RF
6B	DN 200 PN 10 / 16 EN 1092 -1 RF
7B	2" 150 LB ASME B16.5 RF
8B	3" 150 LB ASME B16.5 RF
9B	4" 150 LB ASME B16.5 RF
10B	5" 150 LB ASME B16.5 RF
11B	6" 150 LB ASME B16.5 RF
12B	8" 150 LB ASME B16.5 RF
1C	DN 50 PN 40 EN 1092 -1 RF
2C	DN 80 PN 40 EN 1092 -1 RF
3C	DN 100 PN 40 EN 1092 -1 RF
4C	DN 125 PN 40 EN 1092 -1 RF
5C	DN 150 PN 40 EN 1092 -1 RF
6C	DN 200 PN 40 EN 1092 -1 RF



PRODUCT DATASHEET

MG-0801-00101, VERSION LA-02
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MG8900 SERIES

CODE	PROCESS CONNECTION (THREAD/FLANGE)
7C	2" 300 LB ASME B16.5 RF
8C	3" 300 LB ASME B16.5 RF
9C	4" 300 LB ASME B16.5 RF
10C	5" 300 LB ASME B16.5 RF
11C	6" 300 LB ASME B16.5 RF
12C	8" 300 LB ASME B16.5 RF
1E	Others
X	Customized
CODE	SIGNAL OUTPUT
1A	4-20mA + HART, 2-wire, LCD display (no 220VAC power supply)
2A	4-20mA + HART, 4-wire, LCD display
3B	Modbus-485, LCD display
6C	Profibus-PA, LCD display
7C	Profibus-DP, LCD display
8F	4-20mA + 485, LCD display
9D	FF bus, LCD display
X	Others
CODE	POWER SUPPLY
2	220VAC (no 2-wire)
4	24VDC
X	Others
CODE	ELECTRICAL INTERFACE(2 by default)
A	1/2"NPT
B	M20×1.5
X	Others
CODE	HAZARDOUS AREA CERTIFICATION
1	Common
3	Dust ignition protection
8	Flame proof
9	Intrinsic safety
0	SIL
X	Others
CODE	ADDITIONAL OPTIONS ¹
B	Bluetooth function
D	Mounting Bracket
J	Metal plug
K	Tank side indicator (adjustable, standard cable 20m)
L	Tank side indicator (non-adjustable, standard cable 20m)
P	Purging device
S	Antenna heat sink tube
V	Sunshade
W	Dual-chamber housing + high-performance terminals (lightning protection, reverse polarity protection, anti-interference)
N	Nil
X	Others
CODE	MEASURING RANGE i n (mm)
H	XXXX

PRODUCT DATASHEET

MG-0801-00101, VERSION LA-02
APR. 2025

MG8900 SERIES

☐ Multiple items can be selected according to working conditions

Model: MG8950-3C1E13B1A4A9N H13000

Model Discription: MG8950-Radar level transmitter;

C-High-pressure die-cast aluminum housing;

E1-Antenna type: standard antenna (Horn type);

1A-Signal output: 4-20mA DC + HART;

A-Electrical interface: 1/2" NPT;

N-Nil;

3-Compact type;

1-Antenna & flange material: SS304;

3B-Process connection: DN100 PN10/16;

4-Power supply: 24V AC

9-Intrinsically safe;

H13000-Measuring range: 13000 mm

● If it is applied in the high-temperature and high-pressure situation, the process connection should be customised;

● Process connecting flange sealing surface is RF by default. For other specifications, if the caliber and pressure are the same, this type spectrum code can also be used instead, but special notes is in need.

● Power supply voltage is 24V by default, other requirements need to be customised.

PRODUCT DATASHEET

MG-0801-00101, VERSION LA-02
APR. 2025

MG8900 SERIES

MODEL CODE MG8900 SERIES RADAR LEVEL TRANSMITTER

MODEL	PRODUCT SERIES
MG8956	Radar level transmitter(for solid measuring)
CODE	RADAR TYPE
6	High-performance type (dual chamber, standard lightning protection, reverse polarity protection & anti-interference terminals)
9	Premium type (TUV certified)
CODE	HOUSING MATERIAL
C	High-pressure die-cast aluminum housing
K	Stainless steel housing (SS304)
L	Stainless steel housing (SS316L)
X	Other material housing
CODE	ANTENNA & FLANGE MATERIAL
1	SS304
3	SS316L
X	Other materials
CODE	ANTENNA TYPE (LENS ANTENNA)
E	Standard antenna ($T \leq 200^{\circ}C$, $P \leq 2MPa$)
S	High-temperature antenna ($200^{\circ}C < T < 280^{\circ}C$, $2MPa < P < 4MPa$ mandatory; high-temperature device optional)
H	High-temperature high-pressure antenna ($T \geq 280^{\circ}C$ & $P \geq 4MPa$ mandatory)
CODE	PROCESS CONNECTION (THREAD/FLANGE)
2A	1-1/2" NPT (ASME B1.20.1)
4A	3.5" NPT (ASME B1.20.1)
5A	1-1/2" G (EN ISO 228-1)
7A	3.5" G (EN ISO 228-1)
1B	DN 50 PN 10 / 16 EN 1092 -1 RF
2B	DN 80 PN 10 / 16 EN 1092 -1 RF
3B	DN 100 PN 10 / 16 EN 1092 -1 RF
4B	DN 125 PN 10 / 16 EN 1092 -1 RF
5B	DN 150 PN 10 / 16 EN 1092 -1 RF
6B	DN 200 PN 10 / 16 EN 1092 -1 RF
7B	2" 150 LB ASME B16.5 RF
8B	3" 150 LB ASME B16.5 RF
9B	4" 150 LB ASME B16.5 RF
10B	5" 150 LB ASME B16.5 RF
11B	6" 150 LB ASME B16.5 RF
12B	8" 150 LB ASME B16.5 RF
1C	DN 50 PN 40 EN 1092 -1 RF
2C	DN 80 PN 40 EN 1092 -1 RF
3C	DN 100 PN 40 EN 1092 -1 RF
4C	DN 125 PN 40 EN 1092 -1 RF
5C	DN 150 PN 40 EN 1092 -1 RF
6C	DN 200 PN 40 EN 1092 -1 RF
7C	2" 300 LB ASME B16.5 RF
8C	3" 300 LB ASME B16.5 RF
9C	4" 300 LB ASME B16.5 RF
10C	5" 300 LB ASME B16.5 RF
11C	6" 300 LB ASME B16.5 RF
12C	6" 300 LB ASME B16.5 RF
1E	Others
X	Customised

PRODUCT DATASHEET

MG-0801-00101, VERSION LA-02
APR. 2025

MG8900 SERIES

CODE	SIGNAL OUTPUT
1A	4-20mA + HART, 2-wire, LCD display (no 220VAC power supply)
2A	4-20mA + HART, 4-wire, LCD display
3B	Modbus-485, LCD display
6C	Profibus-PA, LCD display
7C	Profibus-DP, LCD display
8F	4-20mA + 485, LCD display
9D	FF bus, LCD display
X	Others
CODE	POWER SUPPLY
2	220VAC (no 2-wire)
4	24VDC
X	Others
CODE	ELECTRICAL INTERFACE(2 by default)
A	1/2"NPT
B	M20×1.5
X	Others
CODE	HAZARDOUS AREA CERTIFICATION
1	Common
3	Dust ignition protection
8	Flame proof
9	Intrinsic safety
0	SIL
X	Others
CODE	ADDITIONAL OPTIONS ¹
B	Bluetooth function
D	Mounting Bracket
J	Metal plug
K	Tank side indicator (adjustable, standard cable 20m)
L	Tank side indicator (non-adjustable, standard cable 20m)
P	Purging device
S	Antenna heat sink tube
V	Sunshade
G	Universal flange
N	Nil
X	Others
CODE	MEASURING RANGE in (mm)
H	XXXX

☐ Multiple items can be selected according to working conditions

Model: MG8956-6C1E3B1A2A9GP H13000

Model Discription: MG8956-Radar level transmitter;

C-High-pressure die-cast aluminum housing;

E-Antenna type: standard antenna;

1A-Signal output: 4-20mA DC + HART;

A-Electrical interface: 1/2" NPT;

GP-Purging device+Universal flange;

6-High-performance type;

1-Antenna & flange material: SS304;

3B-Process connection: DN100 PN10/16;

4-Power supply: 24V AC

9-Intrinsically safe;

H13000-Measuring range: 13000 mm

● If it is applied in the high-temperature and high-pressure situation, the process connection should be customised;

● Process connecting flange sealing surface is RF by default. For other specifications, if the caliber and pressure are the same, this type spectrum code can also be used instead, but special notes is in need.

● Power supply voltage is 24V by default, other requirements need to be customised.

PRODUCT DATASHEET

MG-0801-00101, VERSION LA-02
APR. 2025

MG8900 SERIES

MODEL CODE MG8900 SERIES RADAR LEVEL TRANSMITTER

MODEL	PRODUCT SERIES
MG8960	Terahertz radar level transmitter
CODE	MEDIUM FORM
L	Liquid
S	Solid
CODE	ANTENNA TYPE
1	Common type
2	High-temperature and high-pressure type
CODE	PROCESS CONNECTION (THREAD/FLANGE)
2A	1-1/2" NPT (ASME B1.20.1)
3A	2" NPT (ASME B1.20.1)
4A	3" NPT (ASME B1.20.1)
5A	1-1/2" G (ENISO 228-1)
6A	2" G (ENISO 228-1)
7A	3" G (ENISO 228-1)
1B	DN 50 PN 10 / 16 EN 1092 -1 RF
2B	DN 80 PN 10 / 16 EN 1092 -1 RF
3B	DN 100 PN 10 / 16 EN 1092 -1 RF
4B	DN 125 PN 10 / 16 EN 1092 -1 RF
5B	DN 150 PN 10 / 16 EN 1092 -1 RF
6B	2" 150 LB ASME B16.5 RF
7B	3" 150 LB ASME B16.5 RF
8B	4" 150 LB ASME B16.5 RF
9B	5" 150 LB ASME B16.5 RF
10B	6" 150 LB ASME B16.5 RF
1C	DN 50 PN 40 EN 1092 -1 RF
2C	DN 80 PN 40 EN 1092 -1 RF
3C	DN 100 PN 40 EN 1092 -1 RF
4C	DN 125 PN 40 EN 1092 -1 RF
5C	DN 150 PN 40 EN 1092 -1 RF
6C	2" 300 LB ASME B16.5 RF
7C	3" 300 LB ASME B16.5 RF
8C	4" 300 LB ASME B16.5 RF
9C	5" 300 LB ASME B16.5 RF
10C	6" 300 LB ASME B16.5 RF
X	Customised
CODE	SIGNAL OUTPUT
8	4~20mA DC+HART LCD Display
9	PROFIBUS-PA

PRODUCT DATASHEET

MG-0801-00101, VERSION LA-02
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MG8900 SERIES

CODE	ELECTRICAL INTERFACE(2 by default)
A	1/2"NPT
B	M20×1.5
X	Others
CODE	HAZARDOUS AREA CERTIFICATION
1	Common
8	Flame proof
9	Intrinsic safety
X	Others
CODE	ADDITIONAL OPTIONS ¹
J	Metal plug
P	Purging device
G	Collimator (universal flange)
D1	Quartz isolating flange
D2	Antenna shield
D3	Antenna heat sink tube
X	Nil
CODE	MEASURING RANGE in (mm)
H	XXXX

¹ Multiple items can be selected according to working conditions

Model Eg.: MG8960-S2X8A9D1D3 H13000

Model Discription: MG8960-Radar level transmitter;

S-Solid measuring;

2-High temperature and high pressure type;

X-Process connection of high temperature and high pressure;

8-Signal output: 4~20mA+HART;

A-Electrical interface: 1/2"NPT;

9-Intrinsic safety;

D1-Quartz isolating flange;

D3-Antenna heat sink tube;

H13000-Measuring range:13000mm.

- The process connection of high-temperature and high pressure situation should be customised, D1 and D2 mandatory;
- Process connecting flange sealing surface is RF by default. For other specifications, if the caliber and pressure are the same, this type spectrum code can also be used instead, but special notes is in need.
- Power supply voltage is 24V by default, other requirements need to be customised.

PRODUCT DATASHEET

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APR. 2025

MG8900 SERIES

MODEL PARAMETER

Customer Information

NAME : _____

COMPANY : _____

ADD. : _____

CITY : _____

POSTAL CODE : _____

EMAIL : _____

PREPARED BY : _____

DATE : _____

APPLICATION DISCRIPTION : _____

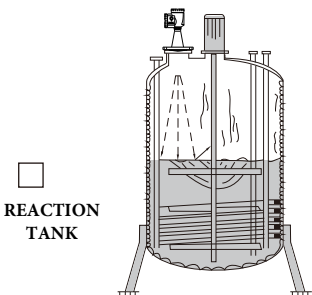
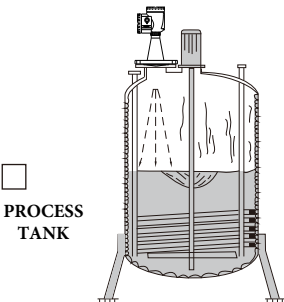
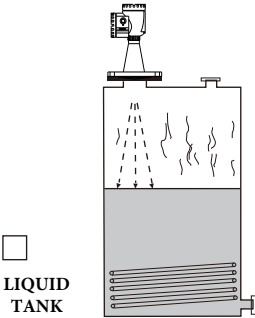
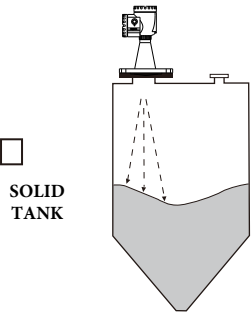
COUNTRY : _____

TEL.: () _____

FAX: () _____

CONTAINER INFORMATION

SKETCH ☐



Safety requirement discription : _____

Tank Hight : _____m

Tank Diameter : _____m

Feed Mode : _____

Tank Roof : _____

Process condition : ()

Pressured : _____

Flat Roof ☐

Foam ☐

Steam ☐

Normal : _____

Curve Roof ☐

Dust ☐

Hanging ☐

Less pressured : _____

Conical Roof ☐

Volatility ☐

Installation Mode : (Specific Style) _____

Distance to the Tank Wall : _____cm

The Maximum Temp. of the Mounting Piont : _____℃

The Maximum Temp. of the Environment : _____℃

Diameter of Waveguide Tube : _____cm

Medium

Medium Name : _____

☐ Liquid ☐ Solid ☐ Liquefied Gas

Medium Temp. : Normal : _____℃ Max. : _____℃

Surface State of Medium : ☐ Calm ☐ Inrush Current ☐ Stirring ☐ Vortex

Dielectric Constant : ☐ $\epsilon_1 < 3$ ☐ $\epsilon_1 > 3$

Important Information

Pipe Hight : _____ cm

Pipe Diameter : _____ cm

Installation (Describe All of the Follwing Parameter) :

☐ Waveguide Tube

☐ 100

☐ 220 VAC

☐ Side

☐ 115

☐ 24 VDC

☐ Center

☐ 200

Communications :

☐ HART®

☐ PROFIBUS-PA

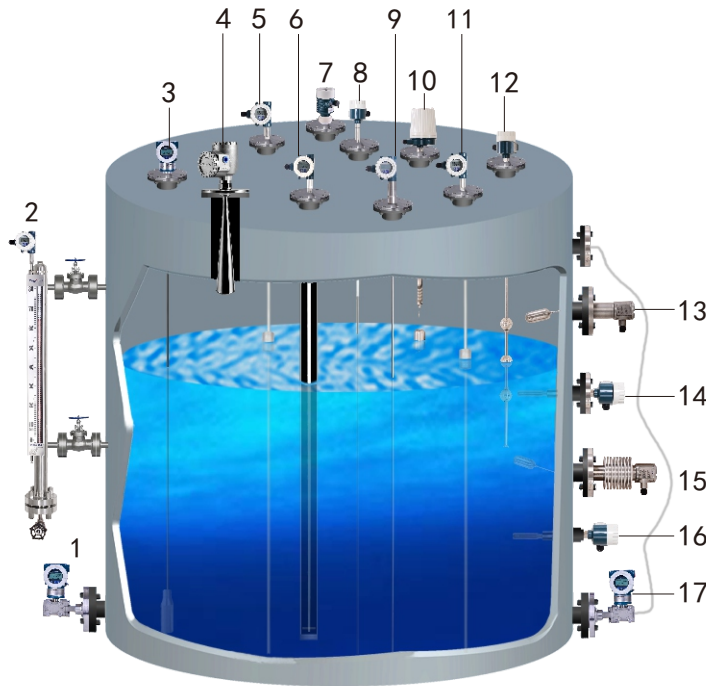
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Product select advice : _____



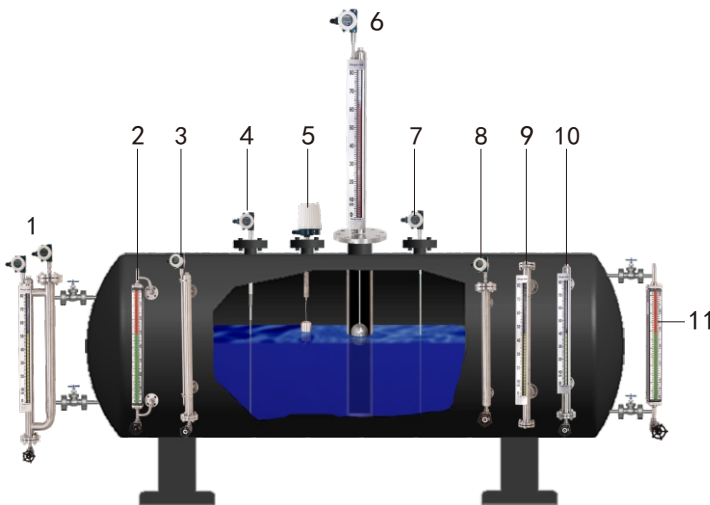
LEVEL MEASURING PRODUCT APPLICATION

LEVEL MEASURING IN TANK



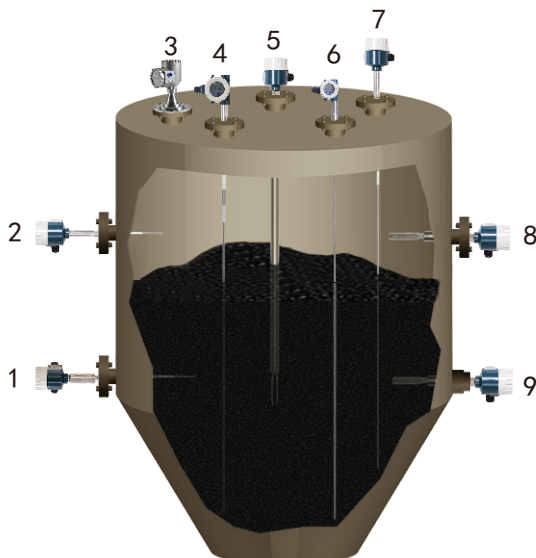
- 1.MG5600L Single Flange Level Transmitter
- 2.MG8800L Side Mounted Bundled Magnetostrictive Liquid Level/Interface Transmitter
- 3.MG5200 Input Level Transmitter
- 4.MG8925 Non-Contact Radar Level Transmitter
- 5.MG8350T Top Mounted Magnetic Float Level Transmitter
- 6.MG8650I RF Admittance Level Transmitter (Insulated Probe)
- 7.MG8750 Ultrasonic Level Gauge (Integrated Probe)
- 8.MG8610N RF Admittance Level Switch (Bare Probe)
- 9.MG8910S Single Rod Guided Wave Radar Level Transmitter
10. MG8330B Float Level Switch
11. MG8800T Top Mounted Magnetostrictive Liquid Level/Interface Transmitter
12. MG8310 Multi Point Foat Level Switch
13. MG8320C General Type Float Level Switch
14. MG8400C General Type Tuning Fork Level Switch
15. MG8320H High Temperature Float Level Switch
16. MG8400E Extended Tuning Fork Level Switch
17. MG5600 Double Flange Liquid Level Transmitter

LIQUE LEVEL/INTERFACE MEASURING



1. MG8800D Double Chamber Liquid Level/Interface Transmitter
2. MG8230N Colored Quartz Glass Tube Level Gauge Without Blind Zone
3. MG8800B Float Level/Interface Transmitter
4. MG8650 Intelligent RF Admittance Level Transmitter
5. MG8330 Float (Floating Ball) Weight Liquid Level Controller
6. MG8800C Top Bundled Magnetostrictive Liquid Level/Interface Transmitter
7. MG8910S Guided Wave Radar Level Transmitter
8. MG8800B Float Level/Interface Transmitter
9. MG8210A Anti Corrosion Magnetic Float Level Gauge
10. MG8210LSide Mounted Magnetic Float Level Gauge
11. MG8230C Basic Type Colored Quartz Glass Tube Level Gauge

OBJECT POSITION MEASURING



1. MG8610H High Temperature RF Admittance Level Controller
2. MG8610N RF Admittance Level Controller
3. MG8956 Non-Contact Radar Level Transmitter
4. MG8650N RF Admittance Level Transmitter
5. MG8400E Extended Tuning Fork Level Controller (Top Mounted)
6. MG8910Guided Wave Radar Level Transmitter
7. MG8610N RF Admittance Level Controller
8. MG8400E Extended Tuning Fork Level Controller
9. MG8400C General Type Tuning Fork Level Switch