

Continuous frequency modulation radar level gauge 80 GHz

AI.Easy-RADAR



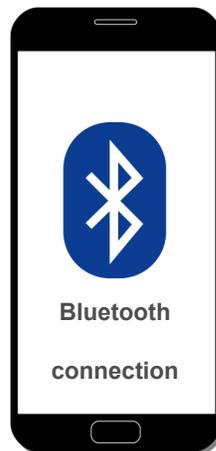
APP Remote

Monitoring



IP68

Protection Level



DESCRIPTION

The AI.Easy-RADAR series is the new level meter with modulated microwave technology that works at a frequency of 80 GHz. It is a high-performance instrument and can measure levels up to 65 m high, with a reduced dead band from 10 to 30 cm.

Thanks to the high working frequency, it guarantees excellent measurement precision.

The instrument is supplied complete with bracket and locking ring.

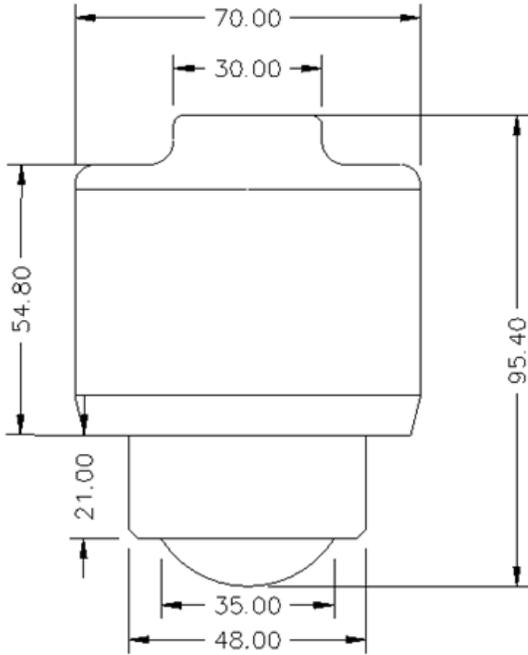
The main advantages of radar level gauge series are as follows:

- Millimeter wave RF chip enables more compact RF architecture, higher signal-to-noise ratio and smaller blind area.
- 5GHz working bandwidth enables the product to have higher measurement resolution and accuracy.
- Thanks to the design of the integrated lens, which has a compact size; the focusing of the AI.Easy-RADAR is only 6 °, thus ensuring minimal interference from the surrounding installation environment.
- Low power consumption operation.
- The AI.Easy-RADAR is equipped with Bluetooth communication, for easy configuration even from a smartphone.

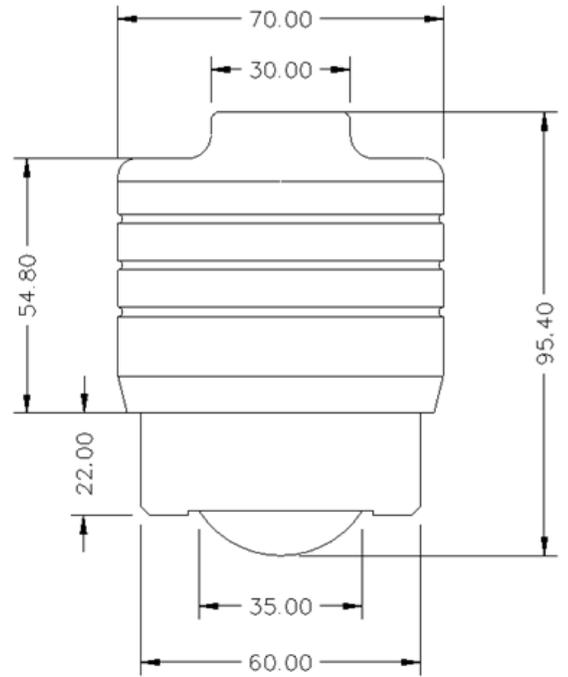
TECHNICAL SPECIFICATIONS

Transmission frequency	76GHz~81GHz
Measuring range	65m
Measurement accuracy	± 1 mm
Beam angle	6°
Power supply range	18-28 VDC
Output	4-20ma(Supports Bluetooth)/Hart (two wires/four wires) RS485/Modbus
Operation temperature	-30 ~ 75°C
Shell material	POM/Aluminium alloy/stainless Steel
Antenna type	Lens antenna
Recommended cables	0.5mm ²
Protection grade	IP68
Process pressure	-0.1 ~ 0.1 Mpa
Installation method	Bracket/Thread

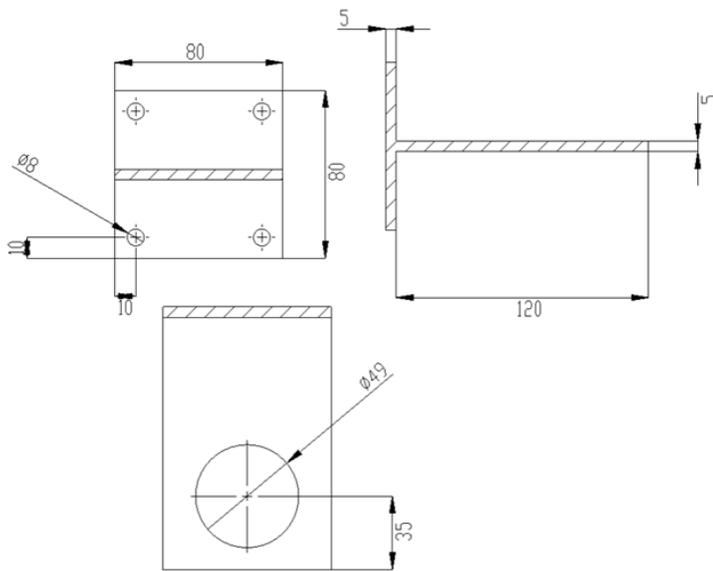
DIMENSIONS (mm)



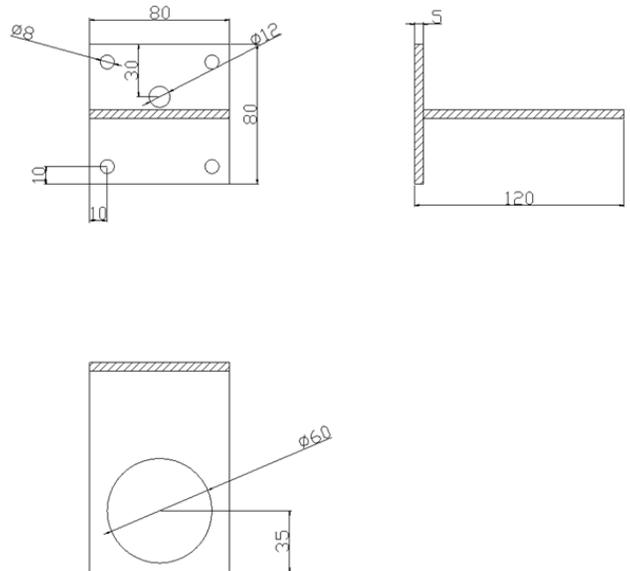
Schematic diagram of a 1.5 " water level gauge



Schematic diagram of a 2 " water level



1.5 " T-shaped bracket schematic diagram



2 " T-shaped bracket schematic diagram

APPLICATIONS

- Water & Sewage treatment
- Oil & gas industry
- Hydrological monitoring
- Pharmaceutical industry
- Food and beverage manufacturing
- Chemical industry
- Process control

CONNECTING & WIRING



COMMUNICATION
With MODEM HART
or MODBUS RS485



Firstly, connect the device correctly according to the above interface definition, and note that the power supply range of the device is 18-28V

Step 2, connect the device to the computer using a HART to USB modulator

Step 3: Connect the 24V power supply, turn on the upper computer, and perform equipment debugging

HOW TO ORDER

AI.Easy-RADAR	Material
	1: POM
	2: Aluminium alloy
	3: Stainless Steel
	Output
	A: 4-20mA Modem Hart
	B: RS485 Modbus
	Measuring range
	7: up to 15 m (bs 10 cm)
	8: up to 65 m (bs 30 cm)
9: over 65 m (su richiesta)	

bs= blind-spot

Order example:

AI.Easy-RADAR **3: Stainless Steel** **A: 4-20mA Modem Hart** **8: up to 65 m** = **AI.Easy-RADAR 3A8**

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Le caratteristiche dichiarate possono cambiare senza alcun preavviso



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Cert n°38785/19/S