

BT7350

Radar Velocity Meter



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1. Overview

BT7350 is a velocity-measuring instrument using microwave technology that can be used with water level detection for hydrological monitoring. It is designed for surface flow monitoring of natural rivers canals/cules/pipes etc., and flood monitoring in urban flood seasons, such as low-lying groundwater drain flow rate monitoring, etc. The product adopts the 24GHz planar microstrip radar technology of InnoSenT from Germany and adopts its own back-end processing technology to accurately extract the water flow speed, which can realize non-contact and unmanned automatic monitoring.

2. Features

- ☑ Built-in German InnoSenT 24GHz (ISM standard band) radar detection module
- ☑ Several communication interfaces can be set to facilitate user system docking
- ☑ Measurement operation and standby mode combined to reduce consumption
- ☑ CW planar microstrip radar non-contact detection free from weather sediment and floating objects
- ☑ Fast and accurate measurement stable data output suitable for

high flow rate environments during flood periods

☑The transmission frequency of the antenna is flexible and adjustable which can effectively avoid mutual interference of multiple products.

3. Technical Parameters

Effective distance	0.5 ~ 30 m
Speed range	0.15 ~ 15 m/s
Resolution	0.01 m/s
Accuracy	±0.02 m/s
Start duration	< 3 s
Measuring duration	3~240s
Antenna type	Planar microstrip array antenna 32°×14°
Radio frequency	24.000 ~ 24.250 GHz
Transmit power	26 dBm
Communication interface	RS-232(default)/ RS-485 / SDI-12 / 4-20 electric current loop mA electric current loop
Digital type	9600(default)8n1; baud rate adjustable
Working voltage	+7 ~ 28 V DC

Working current	Normal operating mode 12V, 110mA Standby mode current $\leq 1\text{mA}$
Working temperature	-40 ~ 60 °C
Protection level	IP66
Dimension (length×width×height)	100×100×40 (mm)
Housing material	Front cover POM back cover aluminum alloy

4. Typical Applications

Hydrological Monitoring:

Natural rivers, open streams, reservoirs, and lakes.

Agricultural Irrigation:

Water flow speed tracking in canals and culverts.

Urban Drainage & Flood Control:

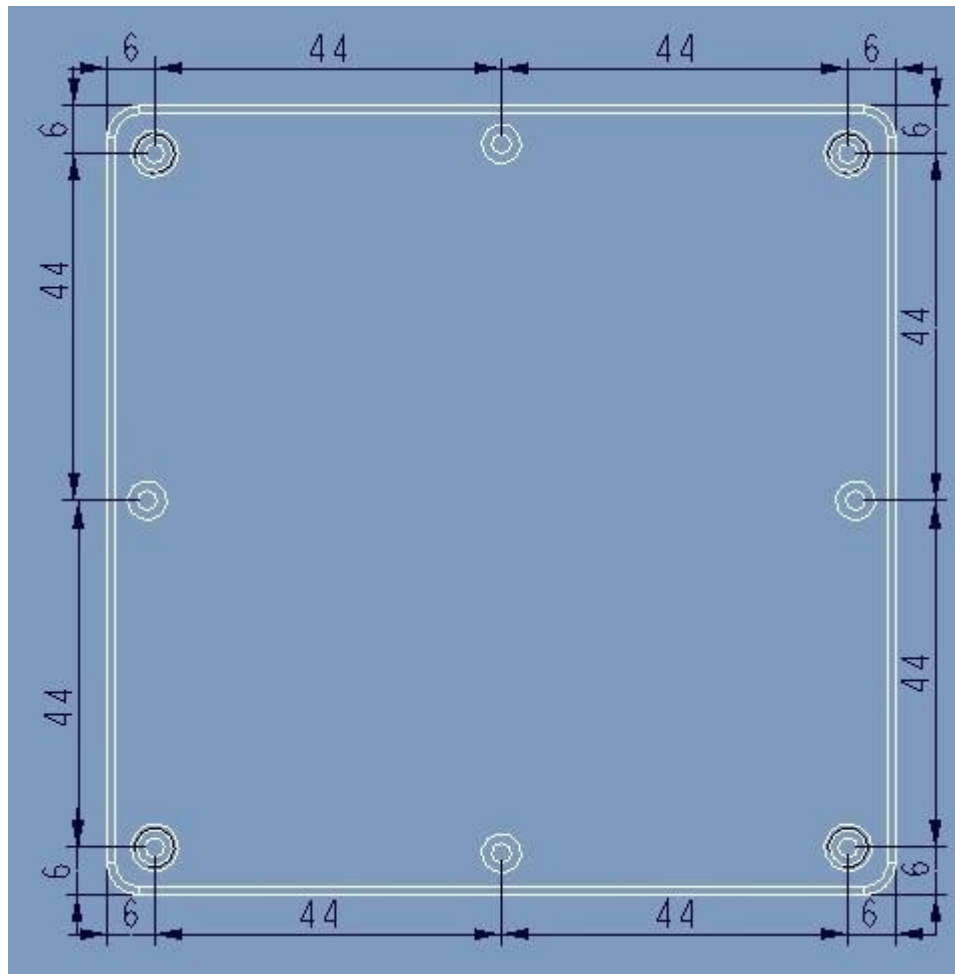
Low-lying groundwater drain monitoring, storm pipe flow measurement, and flash flood detection.

5. Physical Parameters

Installation Guidelines

Mounting Angle : 30° ~ 60° (Recommended for optimal surface reflection)

Mounting Height: 0.5 ~ 30 m above the water surface



Unit: mm