



CDN-12A Turbine Flow Meter

For weather automation applications



Features

- Installation Convenience
- High - Pressure Resistance
- Leak - Proof Performance
- Wide Compatibility
- Durability
- Accurate Measurement
- RS485 MODBUS-RTU
- Adapt to all kinds of harsh environments

The CDN-12A These are among the most common types. Inside the flowmeter, there is a freely - rotating turbine with blades. As water passes through, it exerts a force on the turbine blades, causing the turbine to spin. The rotational speed of the turbine is directly proportional to the velocity of the water flow. A sensor, often a magnetic or an optical one, is used to detect the number of turbine rotations. By calibrating the relationship between the rotation speed and the water flow rate, the volume of water flowing through the meter per unit time can be precisely determined. Turbine water flowmeters are suitable for a wide range of applications, from residential water meters to industrial water - supply systems where the water is relatively clean and free from large - sized particles.

Typical installation locations

- Top of building
- Walls
- Open areas
- Outdoor locations

Design structure

The thread structure is generally fine thread, similar to metal thread, but the pitch is relatively small. The advantage of fine thread is that it can provide greater contact area and better sealing at the same thread diameter. At the same time, the tooth Angle of the plastic thread is usually 60°, and this Angle design helps to evenly distribute the stress of the thread connection and reduce the possibility of thread damage.

Easy installation

When the plastic thread of the flow meter is connected to the pipe, the plastic thread joint is usually used. The plastic thread joint is made of the same or similar material as the flow meter thread opening to ensure good compatibility and connection strength. In order to enhance the reliability of the connection, a convex is designed at the end of the plastic threaded joint, which is matched with the threaded end of the flow meter to form a positioning structure for accurate alignment during installation.

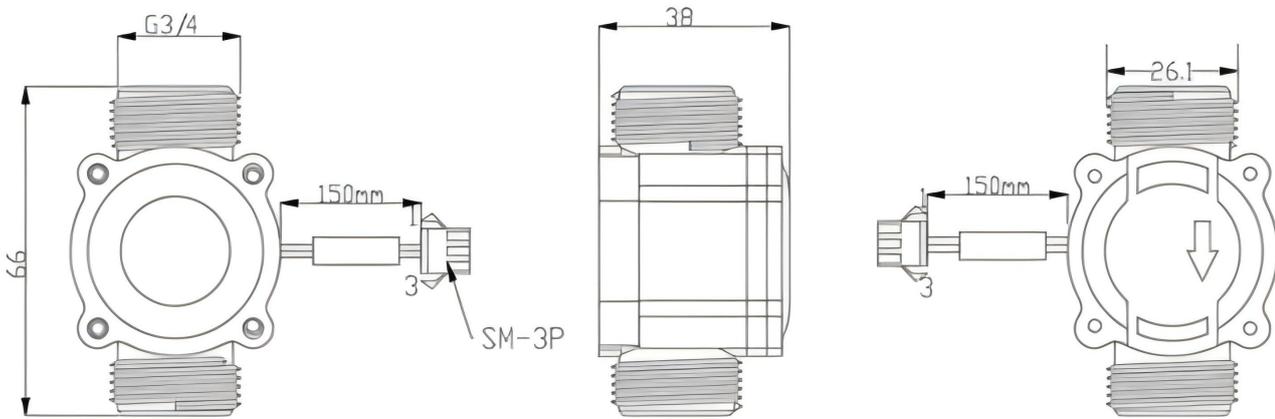
Reliable operation

Despite the challenges of high - pressure and harsh environments, flanged flow meters are engineered to provide accurate and consistent flow measurement. This accuracy is crucial for process control, billing, and quality assurance in industrial applications.

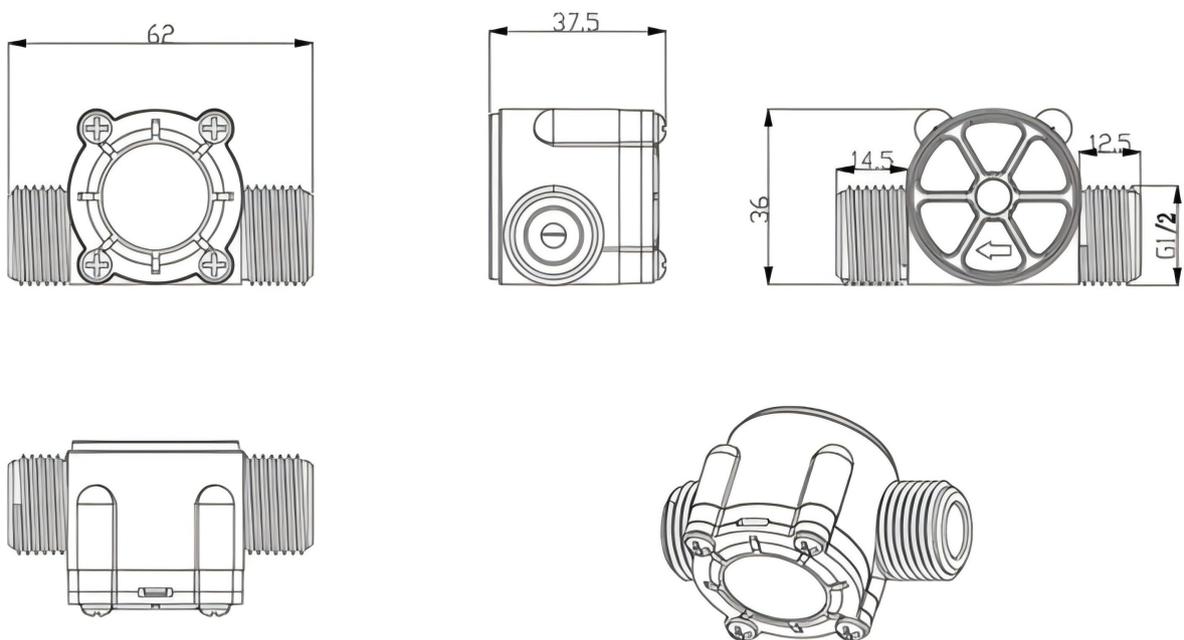
Dimensions & installing

CDN-12A size parameters

G3/4 mm



G1/2 mm



Technical data

Measurement performance, models CDN - 12 A

Output	RS485 Modbus RTU
Supply Voltage	5V-24V
Main material	Nylon
Work Stress	≤1.75MPA
Flow range	2-100 L / Min
Load capacity	≤10mA (5VDC)
Measuring medium	Non-corrosive liquid
Operating temperature	≤80℃
Storage Condition	10℃-50℃@20%-90%RH
Size of interface	G1/2 G3/4 1 inch 1.25 inch 1.5 inch 2 inch

Model number	Type	Output	Special features
CDF-10A	Wind speed	Pulses(PNP) RS485 4-20MA 0-5V	Three cup plastic wind speed
CDF-11A	Wind direction	RS485 4-20MA 0-5V	Plastic wind direction sensor
CDF-12A	Pipe wind speed	RS485 4-20MA 0-5V 0-10V	Duct type wind speed sensor
CDF-13B	Wind speed display controller	LED display	Wireless output relay output
CDF-15A	Digital Anemometer	LCD display	Hand-held anemometer
CDF-20B	Combined Wind Speed & Direction	RS485 4-20MA 0-5V 0-10V	Integrated wind speed and direction
CDF-21A	Ultrasonic Wind Speed & Direction	RS232/RS485(Modbus/NMEA-0183), Voltage(0-5V),Current(4-20mA) optional	Ultrasonic principle
CDF-22A	Mini Ultrasonic Wind Speed & Direction	4-20mA,RS232/RS485(Modbus or NMEA-183), SDI-12	Ultrasonic principle
CDF-26B	Recorder station for wind	LCD display & 4G WIFI Ethernet	Wind speed & direction recorder
CDQ-T6A	Miniature Ultrasonic Automatic Weather	RS485	Wind speed & direction temp & humidity & pressure
CDW-33A	Atmospheric Temperature, Humidity & Pressure	RS485	Shelter installation
CDY-12A	Economical Tipping Bucket Rainfall	Pulses(@10kΩ&0.01uF),RS485	Diameter :φ200mm, height: 271mm
CDG-10B	Solar Radiation	0-5V,4-20mA,RS485	Spectral range:300~1100nm

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