



CDN-10B Flange Flow Meter

For weather automation applications



Features

- Installation Convenience
- High - Pressure Resistance
- Leak - Proof Performance
- Wide Compatibility
- Durability
- Accurate Measurement
- RS485 MODBUS-RTU
- The transmission distance can reach 1000M
- IP68 waterproof rating
- Adapt to all kinds of harsh environments

The CDN-10B Metal flanged flow meters possess several advantages and distinct characteristics. They offer easy installation as the flanges enable a straightforward connection to pipes, fitting well into existing systems. These meters are highly durable, crafted from robust metals that can withstand harsh environments, including high temperatures, corrosive substances, and mechanical stress. Their flanged design ensures excellent pressure resistance, allowing them to operate in high - pressure pipelines. Moreover, they provide accurate flow measurement, which is crucial for various industrial processes, and their leak - proof nature, due to the tight flange joints, safeguards the integrity of the fluid - carrying system.

Typical installation locations

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

Design structure

The flange structure provides excellent mechanical strength, enabling the flow meter to withstand high - pressure environments. This makes them suitable for applications in industries such as oil and gas, chemical processing, and power generation, where high - pressure fluid flow is common.

Easy installation

They are designed with flanges that allow for straightforward and secure attachment to pipes. This standardized flange connection simplifies the installation process, reducing the time and effort required for setup. It also enables easy integration into existing piping systems without the need for complex modifications.

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-10B

Specification and size parameters



Model	Overload flow	Length(L)	Wide(B)	High(H)
mm				
CD-50E	50	280	220	172
CD-65E	60	280	220	172
CD-80E	80	225	200	236
CD-100E	100	250	220	251
CD-150E	150	300	285	309
CD-200E	200	350	340	362

Model	Flange dimensions mm	Overload flow	General flow	Transitional flow	Minimum flow	Min.reading	Max.reading
m3/h							m3
CD-50E	50	30	25	1.5	0.45	0.0001	S99999
CD-65E	65	60	25	9	2.4		
CD-80E	80	78.75	63	5.04	3.15		
CD-100E	100	125	100	8	5	0.01	999999
CD-150E	150	312.5	250	20	12.5		
CD-200E	200	500	400	32	20		

Technical data

Measurement performance, models CDN - 10 B

Output	RS485 Modbus RTU
Supply Voltage	12V-24V
Main material	Cast iron
Work Stress	≤1.0MPA
Medium temperature	Cold water : 0-40℃ Hot water : 0-100℃
Ingress Protection	IP68
Operating Temperature	-40℃~ +50℃
Metrological grade	Second level
Installation	DN15-DN50 Screw mounting
	DN50-DN200 Flanged mounting
	DN15-DN40 Flanged mounting
Storage Condition	10℃-50℃@20%-90%RH

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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