MeteOS115 INTEGRATED METEOROLOGY SENSOR

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MeteOS115, Integrated Meteorology Sensor measures air temperature, air pressure, relative humidity as well as wind speed and direction by using the time difference of ultrasonic propagation in the air.

Compact structure makes the volume smaller and the appearence elegant. All aluminum alloy shell makes the structure stronger.

Military grade system design allows equipment to work in harsh and extreme weather environment as well as series shock, dry and sunny desert, marine seasalty and vibrating platforms.

MeteOS115 Specification

- Wind Speed and Direction measurement with ultrasonic sensor
- Air temperature, humidity and pressure.
- Aluminum cast mechanical housing
- The environmental protection class is rated IP66.
- Integrated and compact design
- It has no moving parts and no regular service requirement other than regular cleaning, making it a very reliable “fit and forget” sensor.

Advantages

- Special design for military and civilian applications
- Accurate measurements with low error margins
- High mechanical strength
- Low maintenance requirements and costs
- Compact design
- Easy installation and maintenance
- Integrated solution that supports many different communication protocols (all in one) and does not require different ordering options

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Product Specifications

PERFORMANCE					
	Wind Speed	**Wind Direction**	**Temperature**	**Relative Humidity**	**Air Pressure**
Measuring Principle	Ultrasonic	Ultrasonic	MEMS	MEMS Capacitive	MEMS Capacitive
Measuring Range	0m/s to 75m/s	0° to 360°	-50°C to +80°C	0%RH to 100%RH	300hPa to 1100hPa
Resolution	0.1m/s	0.1°	0.05°C	0.01%RH	0.01hPa
Accuracy	%2	±1°	0.2°C	1.5% *(%10-%90)* 2% *(%90-%100)*	0.02hPa *(0°C to +40°C)* *(700 to 1100hPa)*

ENVIRONMENTAL		PHYSICAL		POWER	
Temperature	-45°C to +85°C	**Weight**	2002.3g	**DC**	24VDC *(18…32VDC)*
Protection Class	IP66 *(EN / IEC 60529)*	**Dimensions**	Ø150/350mm	**Power Consumption**	1W
		Body Material	Aluminum *(Black Anodized Coating)*		

OUTPUTS	
PORT 1	RS485, UMB Protocol
	RS485, MODBUS over Serial Line
	CANBus (*)
	Diagnostic Relay Output
PORT 2	RS485, NMEA-0183 Protocol
	4-20mA DC
	0-10V DC
	Diagnostic Relay Output
PORT 3	RS485, Service and Calibration
	Diagnostic Relay Output
Alternative output types using the same port can be set in the field using DIP-SWITCHES.	
** Future Option*	

ACCESSORIES	
Connection Cable with Connector *(Optional)*	20 W B 35 PN *(Male)*
Pipe Mounting *(Optional)*	195.25mm

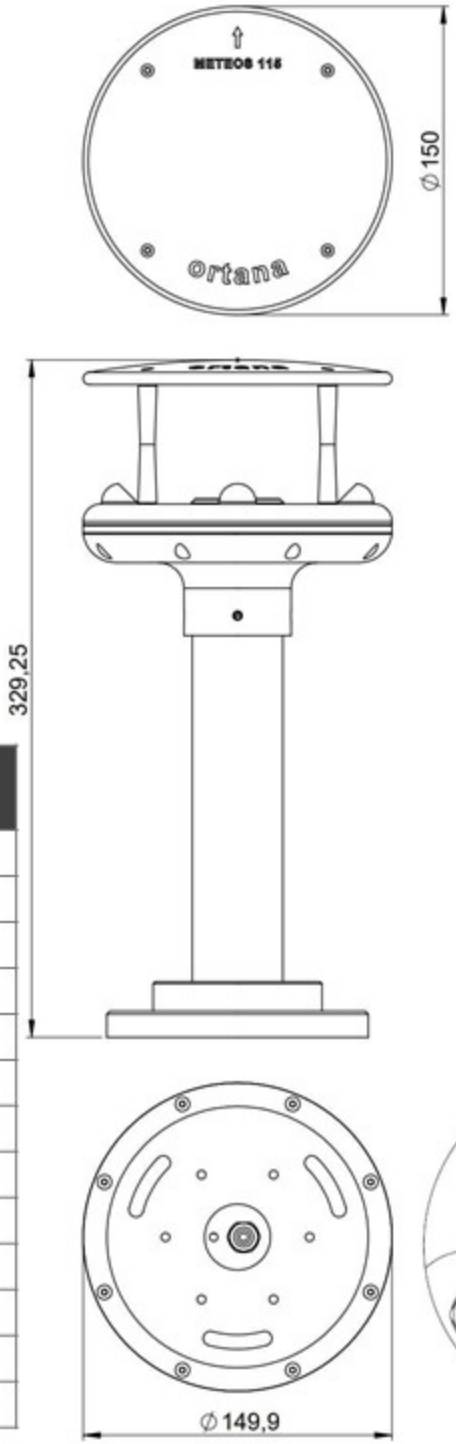
STANDARDS

EN / IEC 60529

EN / IEC 61010-1

EN / IEC 61326-1: 2020

TECHNICAL DRAWING



OUTPUT CONNECTOR PIN DEFINITIONS *(20WB35PNMale)*

1	Power
2	Power
3	GND
4	GND
5	RS485A/Telemetry
6	RS485B/Telemetry
7	RS485A/NMEA
8	RS485B/NMEA
9	RS485A/UMB-MODBUS Relay1
10	RS485B/UMB-MODBUS Relay2
11	N/C
12	N/C
13	Shield

** Drawing includes optional pipe mounting accessory.*

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