

KWS-10 Ultrasonic Weather Station Sensor Installation

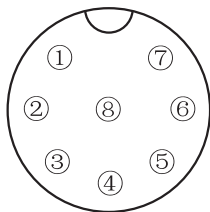


Verifying the contents

When you first time open the box of your KW-360 Weather Station please confirm you have following items inside the box :

- KW360 Main Unit
- 15 meters cable
- Mounting pole
- Quick Manuals
- Standard accessories pack (M6 U style screw bolt x 2 pcs, dog tooth mount x 2 pcs, M6 butterfly screws x 4 sets, hex key screwdriver x 1 pc.)

Interconnection



Pin1-----RS232IN +	White
Pin2-----RS232IN -	Blue
Pin3-----RS485 +	Yellow
Pin4-----RS485 -	Green
Pin5-----POWER INPUT +	Red
Pin6-----POWER INPUT -	Black
Pin7-----RS232OUT +	Brown
Pin8-----RS232OUT -	Grey

Power Input : 10.5VDC to 40.5VDC

Input port : RS232 x 1

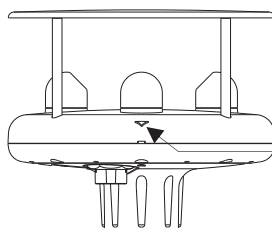
Output port : RS232 x 1, RS485 x 1

Output sentences (default setting) : \$--MWV, \$--XDR, \$--RMZ and \$--MDA

Output baudrate (programmable) : 4,800, 9600 (default), 19,200 and 38,400

Installation

The customer must ensure that the KW-360 is installed in an open area, in order to avoid obstruction. Do not install the KW-360 next to a high power radar or a radio transmitter device, always take note of the impact of the surrounding electronic interference and it is best to do an initial investigation of the surroundings.



Make sure the triangle mark is facing to the BOW direction of the boat you are installing

Computer connection

KW-360(8 core connector)		Computer serial port (DB9)	
Wiring	Pin	Name	Pin
RS232OUT +	7	RXD	2
RS232OUT -	8	GND	5
RS232IN +	1	TXD	3
RS232IN -	2	GND	5
POWER INPUT +	5	+ DC Power Supply - (12V or 24V)	
POWER INPUT -	6		

Specification

Wind speed	
Range	0~40m/s
Precision	±2% (at 12m/s)
Resolution	0.01m/s
Measurement Unit	m/s
Wind	
Range	0 ~ 359.9°
Resolution	0.1°
Temperature	
Temperature measurement range	-20℃ ~ +75℃
Temperature measurement accuracy	±0.5℃
Temperature resolution	0.1℃
Measurement Unit	℃
Humidity	
Humidity measurement range	10% ~ 99.9%
Humidity measurement accuracy	±2%RH (25℃)
Humidity resolution	0.1%RH
Pressure	
Measurement unit	Pa
Measurement range	30000 ~ 110000Pa
Altitude	
Measurement unit	m
Measurement range	+9000m ~ 0m
Communication format	
Hardware interface	RS232、RS485
Baud rate	4800、9600(default)、19200、38400
Format	NMEA0183(default), Modbus
Working environment	
Waterproof grade	IP65
Working temperature	-20℃ ~ +75℃
Storage temperature	-30℃ ~ +80℃
Working humidity	<5% ~ 100%
Electromagnetic compatibility	IEC60945
Input source	10.5VDC ~ 40.5VDC
Mechanical properties	
Size / weight	165×165×140 (L×W×H) mm <1kg

For more detail please download the full manual from www.navtix-marine.com