

ANEMOMETER

AM-100

- Strong nylon material used for transmitter case
- True wind speed/direction available
- Up to 4 display units and 6 data output
- Type approval with CCS



AM-100T ANEMOMETER TRANSMITTER



**AM-100R
REMOTE BUTTON**



AM-100D DISPLAY UNIT

- AM-100 Digital Anemometer is designed for marine use. With case made of nylon and PC material, AM-100 can stand strong wind of 60+m/s and can be installed outdoor without corrosion.
- AM-100 can support up to 4 display units to indicate wind speed and direction at four locations onboard. Maximum 6 ports of RS422 output are available, to provide wind data to other navigation devices.
- Real wind direction and speed can be indicated when AM-100 is connected with speed log and compass. The heading and speed data can also be provided with COG & SOG from GPS receiver, if the connection with speed log and compass is not possible in some cases.



SPECIFICATIONS

● Wind Range:	Wind direction 0~360° Wind velocity 0~60 m/s
● Accuracy:	Wind direction $\pm 5^\circ$ Wind velocity $\pm (0.5 + V \times 5\%) \text{ m/s}$
● Power Supply:	AC 110 V/220 V
● Output Data:	NMEA 0183 (6 ports, RS422), 4800 bps
● Input Signal:	Gyro Compass, NMEA 0183, RS422 Speed Log, NEMA 0183, RS422
● Display Capacity:	Max 4 Display Units to be connected
● Environment:	Outdoor -30°C~+70°C, Indoor -15°C~+55°C
● Size:	627 (H)×605 (L)×243 (propeller diameter) mm (Transmitter)
● Weight:	4.3 kg (Transmitter)
● IP Grade:	IP22 (Display Unit, Junction Box, Remote Button) IP66 (Transmitter, Watertight Box)

EQUIPMENT LIST

● STANDARD		
- Anemometer Transmitter	AM-100T	1 pc
- Display Unit	AM-100D	1 pc
- Junction Box	AM-100J	1 pc
- Watertight Box	AM-100TJ	1 pc
- Outdoor Cable	40 m	1 pc
- Indoor Cable	10 m	1 pc
- Power Cable	2 m	1 pc
- Installation Materials		1 set
● OPTIONS		
- Remote Button	AM-100R	
- Additional Display Unit	AM-100D	
- Additional Cables		

SYSTEM DIAGRAM

The diagram illustrates the system architecture centered around the AM-100J Junction Box. The components and their connections are as follows:

- AM-100T ANEMOMETER TRANSMITTER:** Connected to the AM-100J Junction Box via a cable.
- AM-100T2 WATERTIGHT BOX:** Connected to the AM-100J Junction Box via a cable.
- AM-1000(1) REMOTE BUTTON and AM-1000(1) DISPLAY UNIT:** These are connected to the AM-100J Junction Box via a dashed line.
- AM-1000(4) REMOTE BUTTON and AM-1000(4) DISPLAY UNIT:** These are connected to the AM-100J Junction Box via a dashed line.
- Outputs from the AM-100J Junction Box:**
 - GYRO COMPASS (indicated by a dashed line with an arrow pointing left)
 - SPEED LOG (indicated by a dashed line with an arrow pointing left)
 - NMEA OUTPUT 6 (indicated by a dashed line with an arrow pointing right)
 - NMEA OUTPUT 5 (indicated by a dashed line with an arrow pointing right)
 - NMEA OUTPUT 4 (indicated by a dashed line with an arrow pointing right)
 - NMEA OUTPUT 3 (indicated by a dashed line with an arrow pointing right)
 - INS (indicated by a dashed line with an arrow pointing right)
 - (S)VDR (indicated by a dashed line with an arrow pointing right)
 - POWER INPUT AC110V/220V (indicated by a solid line with an arrow pointing left)

SIZE DIMENSION

Technical drawing showing the dimensions of the AM-100J and AM-100TJ units.

AM-100J Dimensions:

- Top dimensions: 213.0, 197.0, 185.2
- Right side dimensions: 292.0, 344.2
- Bottom dimension: 4-Ø 4.5, FITTING HOLE
- Left side dimension: 49.6
- Bottom right corner dimension: 3.0

AM-100TJ Dimensions:

- Top dimensions: 80, 70
- Left side dimensions: 100, 90
- Bottom left dimension: 4-Ø 4.5, FITTING HOLE
- Bottom right dimension: 36

Views:

- FRONT VIEW (top right)
- SIDE VIEW (bottom right)

Model Identification:

- AM-100J (bottom left)
- AM-100TJ (bottom right)