

WENDEN

Marine GPS Antenna Receiver

Model **GP-180**



Specifications

Performance :

Antenna : High-reliability ceramic patch

Antenna LNA gain : 25+/-2dB, NF : 2.0dB max

Receiver frequency : 1575.42MHz, C/A code

Receiver Architecture : 12-channel all-in-view algorithm
tracks & uses up to 12 satellites

Acquisition time : Cold start <29sec. typical
Warm start <28sec. typical
Hot start <1sec. typical

Position Accuracy : 2.5m CEP

Velocity Accuracy : 0.1m/sec

Time Accuracy : 10ns

Update rate : 1 sec. continuous (default)

Datum : WGS84

SBAS : WAAS & MSAS, QZSS, EGNOS

Communication :

Protocol : NMEA-0183, 4800 baud rate (standard)
9600, 11520, 38400 (option)

Signal level : RS232 (standard), RS422 (option)

Cable :

Length : 10 meters (standard), 30 meters (option)

Description : Multi-color conductors strained in a
shielded/weatherproof jacket

Power :

Input power : DC 10-35V reverse protect

Voltage regulator : on-board, switching mode type

Consumption : 0.5 Watt typical

EMI filter : rejects power lines interference.

Interface Capability :

Output protocol : NMEA-0183

Standard output sentences : GSA, GSV, RMC, GGA,
VTG & ZDA

Custom outputs sentences : GLL

Physical Construction :

Dimension : 85 mm diameter x 91 mm (H)

Weight : 527g with cable

Enclosure : High impact, corrosion-proof ASA

Construction : Hermetically sealed & fully water proof

Mounting : Pole mount to 1"-14 threaded mast

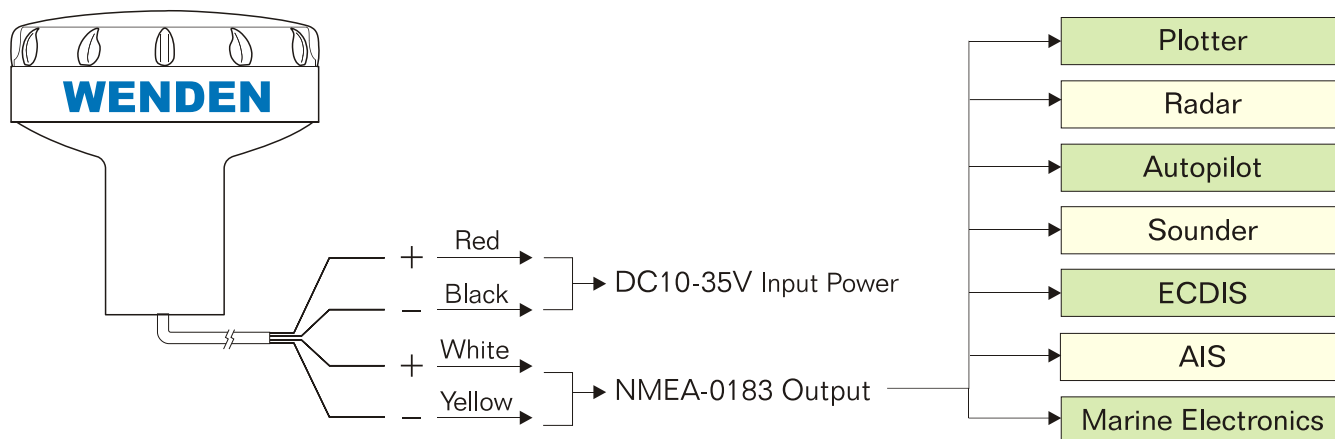
Environmental Conditions :

Temperature : Operating -20°C ~ + 75°C
Storage -55°C ~ + 90°C

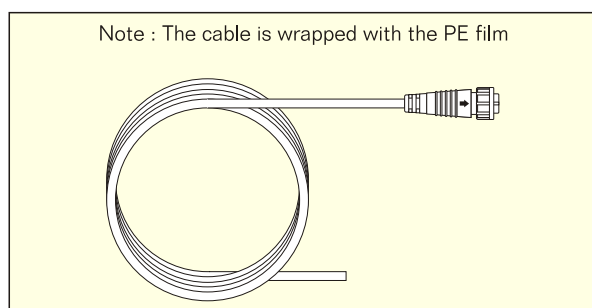
Humidity : 5% ~ 95% non-condensing

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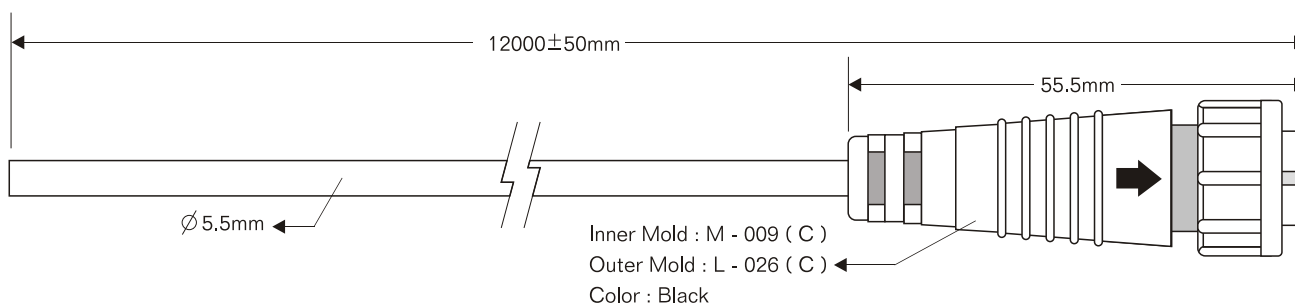
Connection :



Cabel with connector [option] :

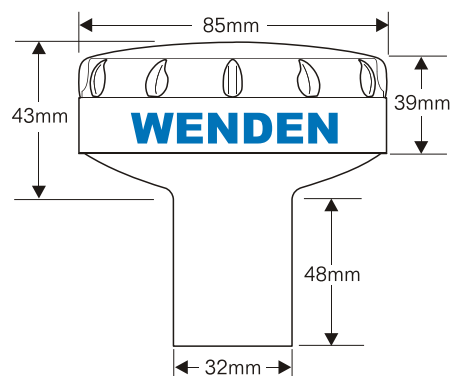


Pin Assignment	
Pin#	Wire
1	Input power + (pos)
2	RS232 signal IN/RX
3	GPS signal OUT/TX
4	Reserve
5	Reserve
6	Input power - (neg)

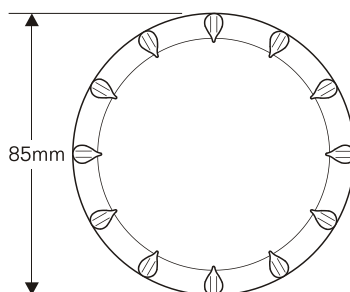


Dimensions :

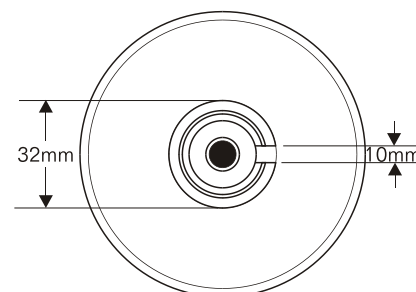
Side view



Top view



Bottom view



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NOTE

All specifications are provisional and Subject to change without notice or obligation

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