

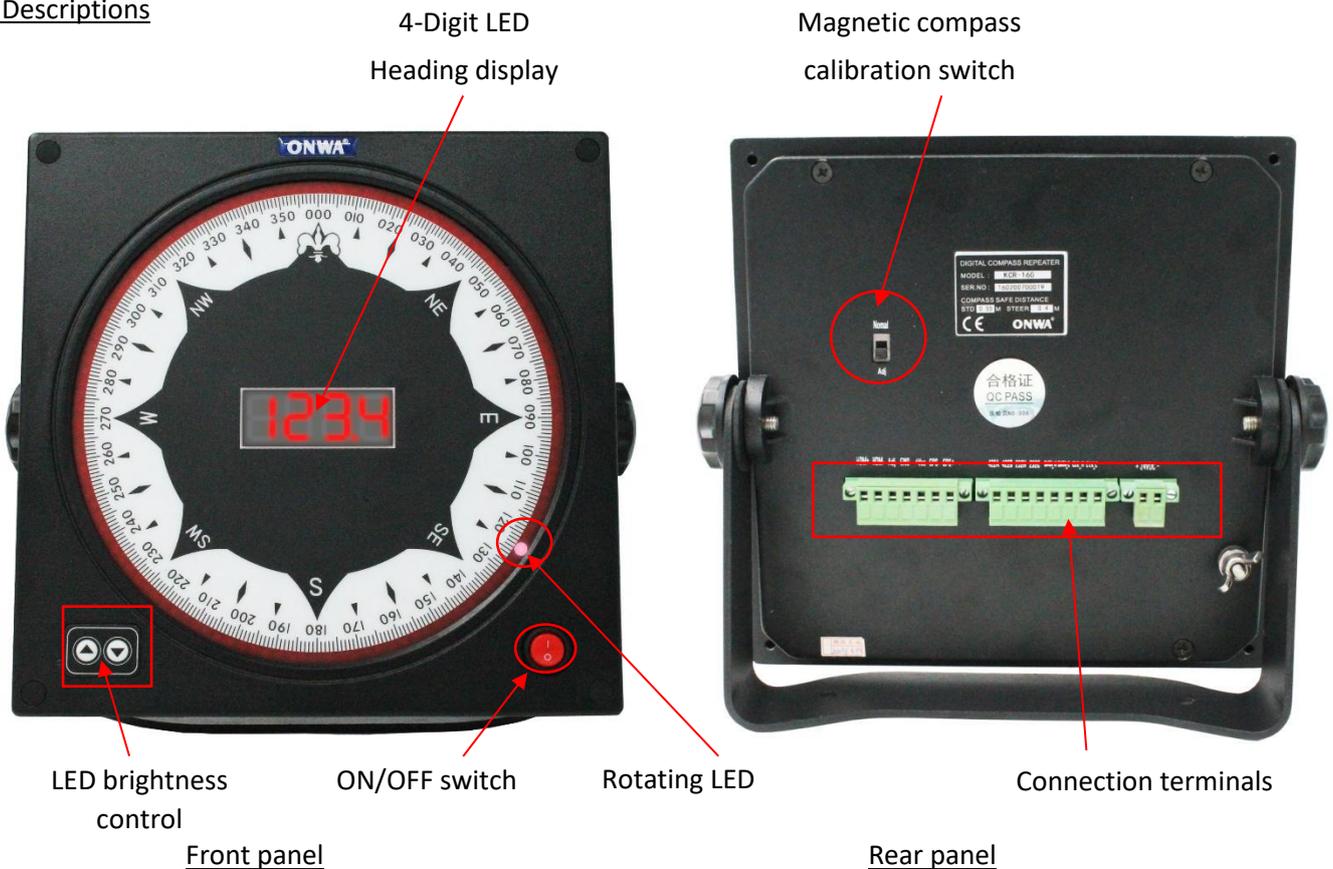
KCR-160 Digital Compass Repeater

1. Introduction :

KCR-160 digital compass repeater can automatically identify two NMEA0183 heading data input, HDT and HDM with baudrate of 4800. KCR-160 has a 4-Digit LED display and a rotating LED on the outer circle of the compass scale.

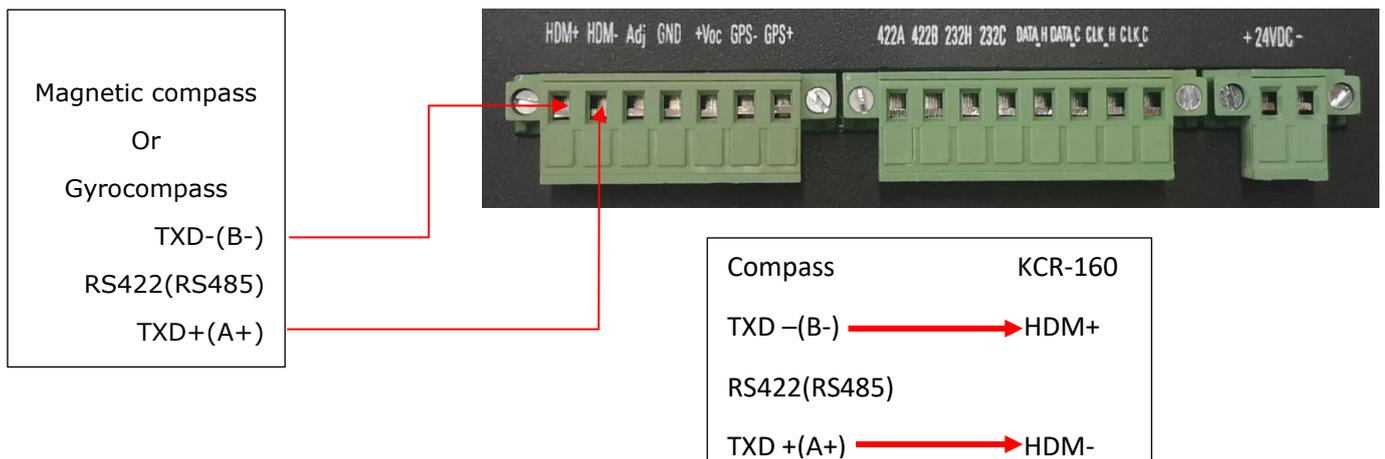
KCR-160 can also re-output the input NMEA0183 heading data to the output ports in the format of NMEA0183 and AD-10.

2. Descriptions

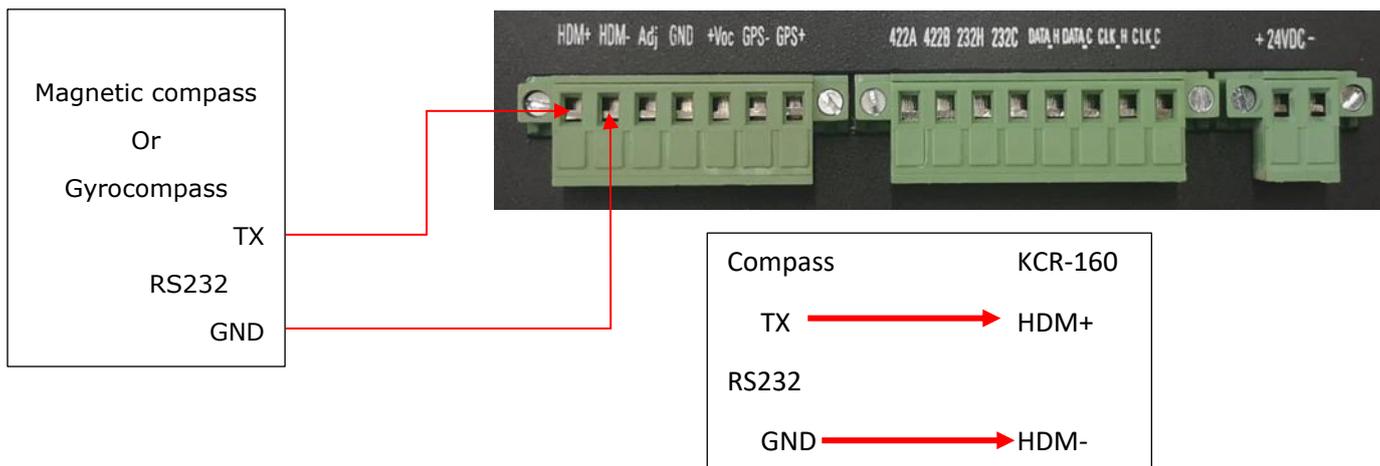


3. Installation Guide

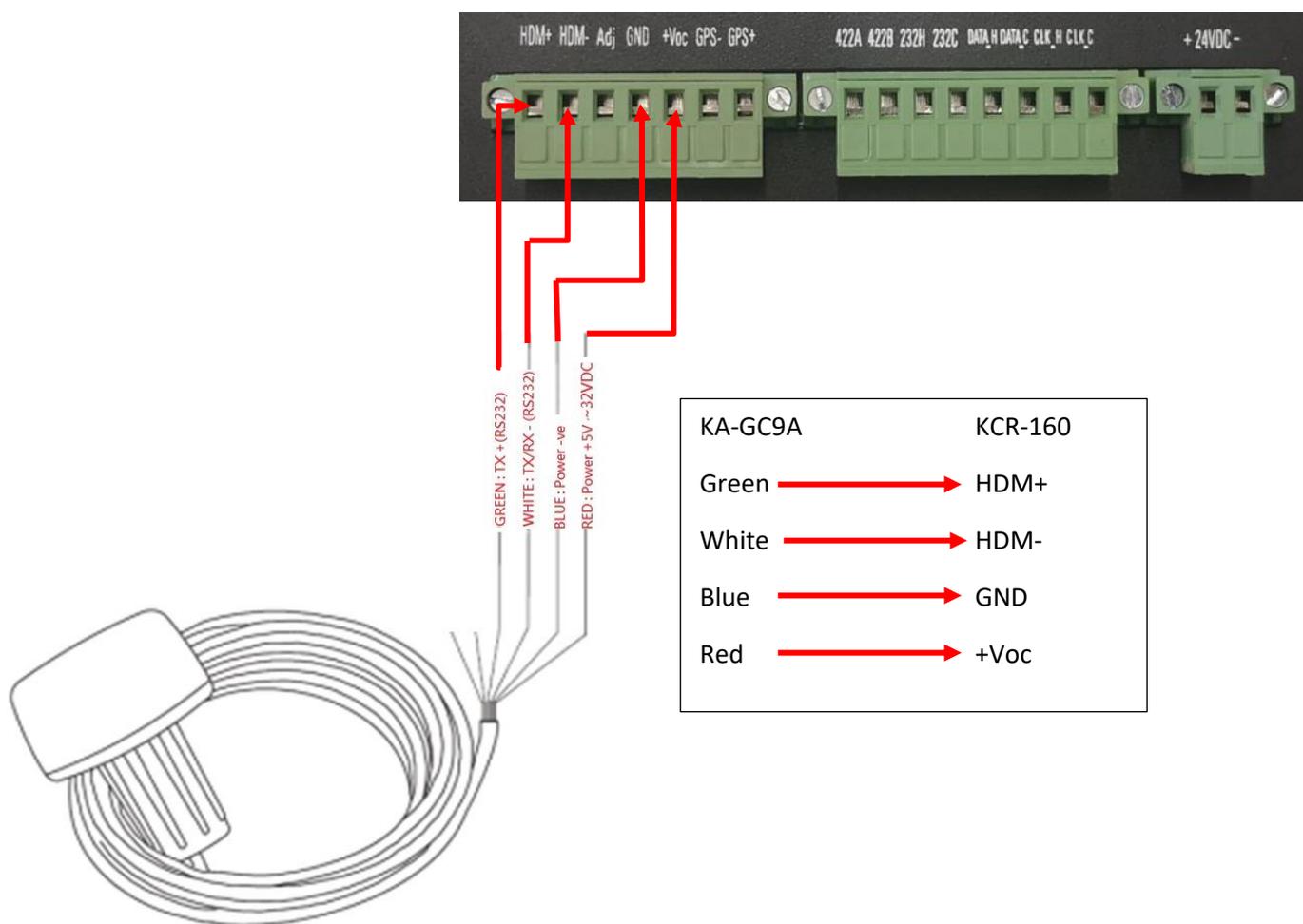
3.1 NMEA0183 heading input RS422/485 connection



3.2 NMEA0183 heading input RS232 connection

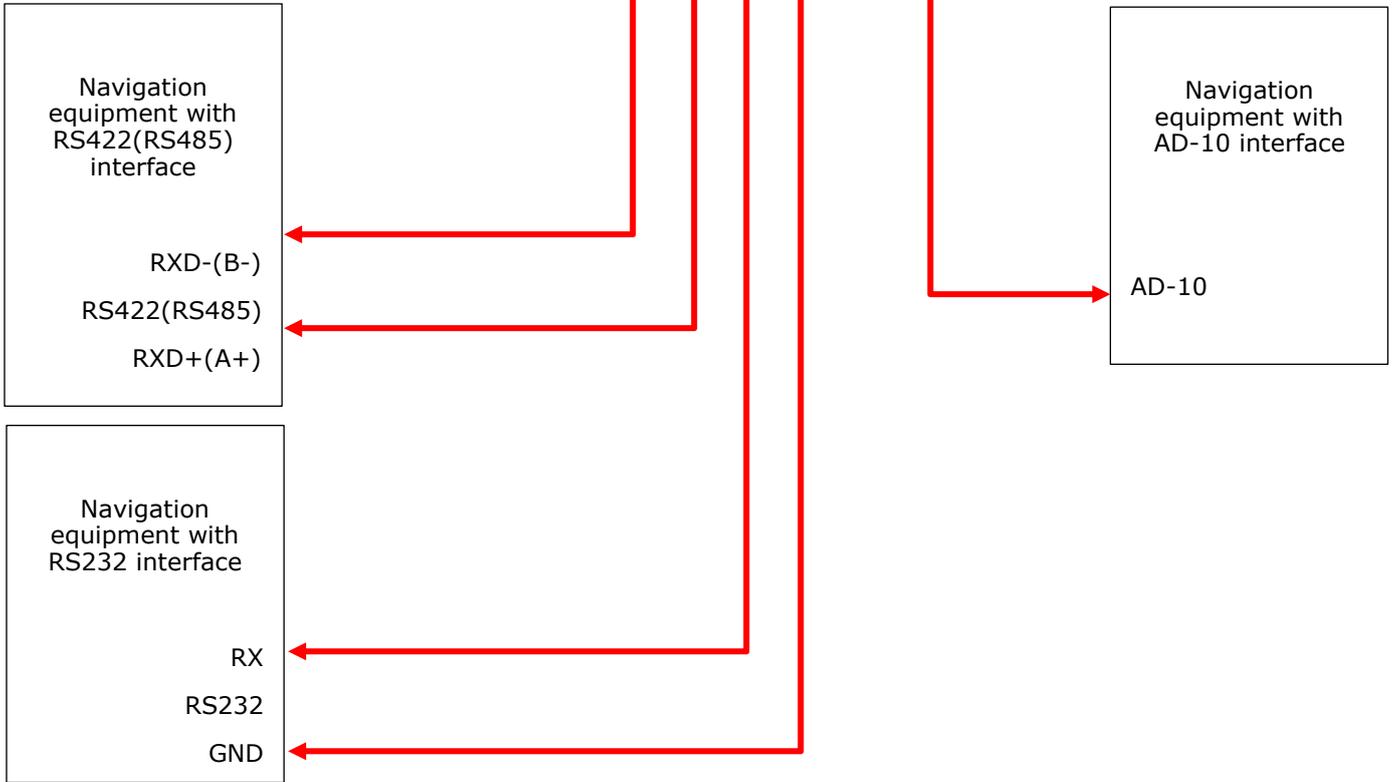
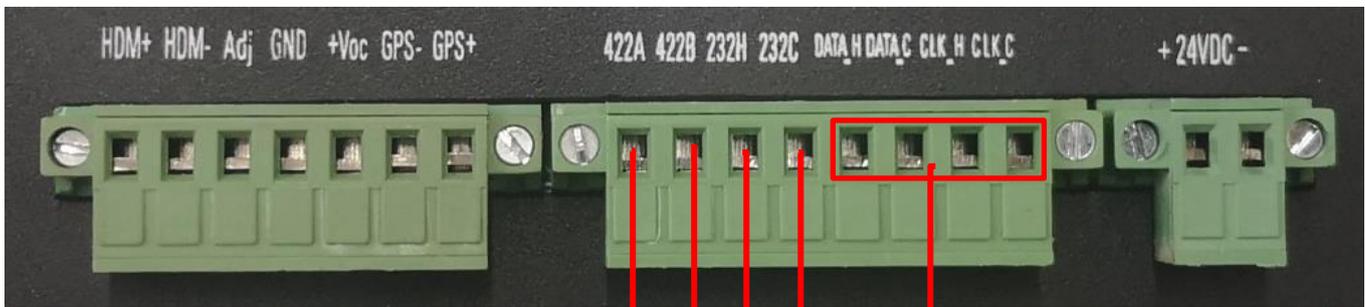


3.3 ONWA KA-GC9A connection



3.5 Output connections

The heading input is re-outputted to the output ports below. You can connect it to radar, chartplotter or other navigational equipment to provide heading signal.



3.6 Power connection



4. Operation

4.1 Press the red switch on the front panel to switch ON the unit.



Once powered ON, the 4-digit LCD Display on the front panel lights up.

If heading signal is detected the 4-digit LED Display will show the heading:



In case no heading signal is detected the 4-digit LED Display will not show any digit:



4.2 LED brightness adjustment

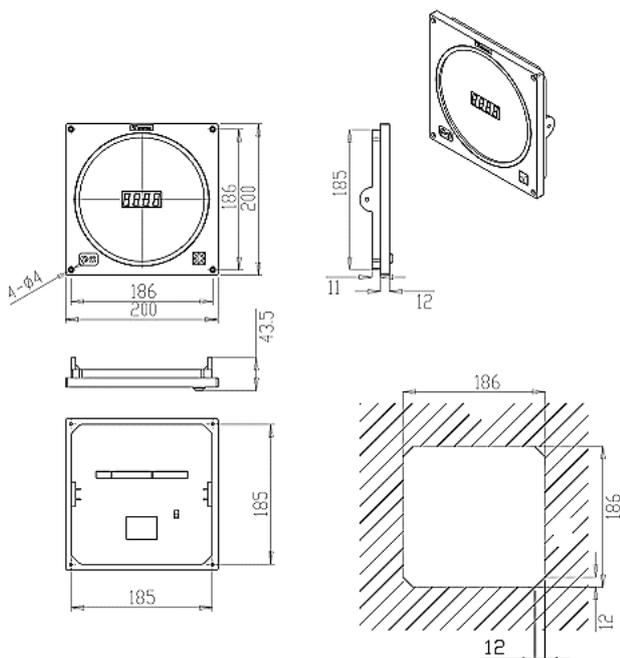
You can press the UP/DOWN arrows to adjust suitable LED brightness for day/night environment.



5. Specifications

Dimension: 200*200*27mm	Weight: 1.2kg
Compass safe distance: 1m	Waterproof: IP66
Working temperature: -20°C to +70°C	Humidity: lower than 95%
Scale accuracy: 1.5°	digital display accuracy: $\pm 0.2^\circ$
Track rate: 45°/s	Power supply: 9V – 36VDC, 0.20A at 24VDC
Input data: RS-422, RS-485 or RS-232	Output data: RS-422, RS-485, RS-232
Input data format: NMEA 0183(HDT or HDM), baudrate: 4800,no priority,1 stop bit	
Output data format: AD-10 and NMEA 0183(HDT), baudrate: 4800,no priority,1 stop bit	

6. Dimensions



Panel mounting



Desktop mounting