

# NINGLU

# IR761

## Wind Repeater Operating & Installation Manual

Edition 20170101 (Ver. 1.8)



NANJING NINGLU TECHNOLOGY CO., LTD.

## INTRODUCTION

The IR761 wind repeater is a combined display for wind speed and direction. It receives NMEA0183 signal from a marine anemometer (talker), and displays the **relative wind speed and direction, or true wind speed and direction**. Its 144x144 Din size cabinet is suitable for panel (flush) mounting. Also the tabletop and wall mounting is available with the bracket.

Press the ▲▼ keys only, to have LED dimming control.

Press the S key only, to select the wind speed unit: m/s, knots, km/h, and mph.

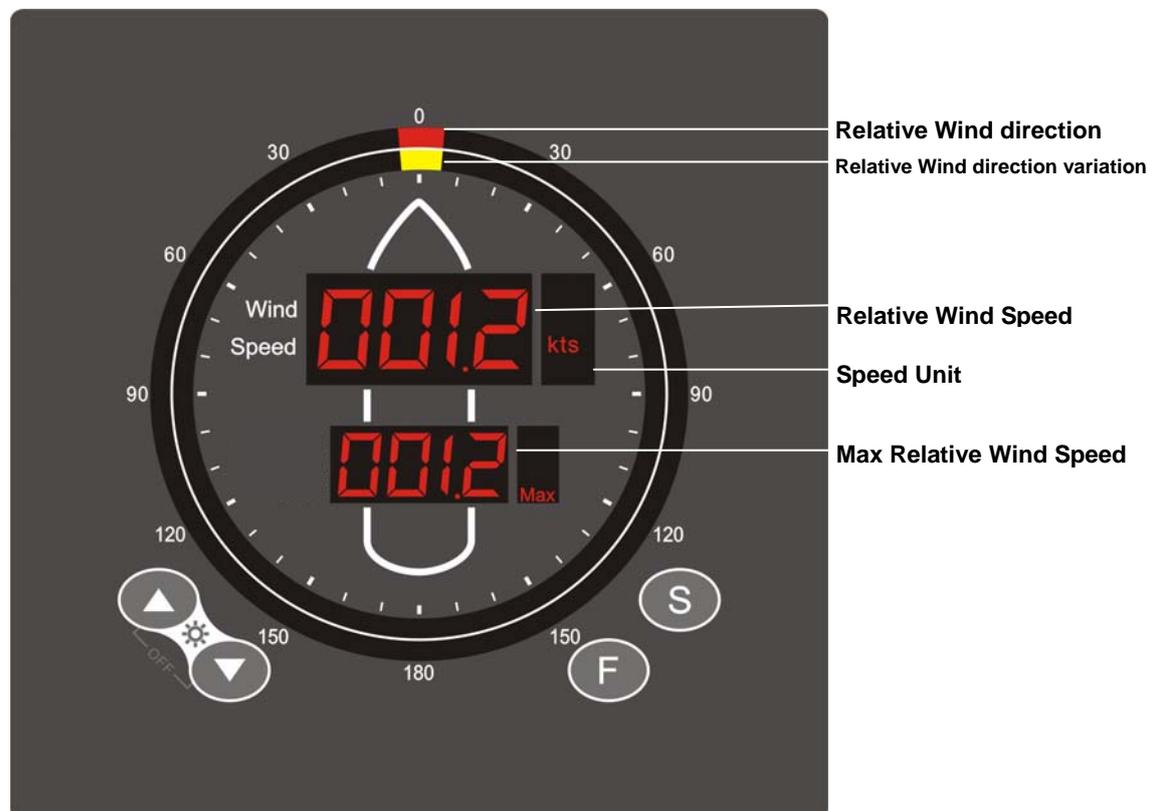
Press [ F ] key, switch alternately “True mode”, “Relative mode” and “Relative, Max wind Interval setting mode”.

“Relative mode” and “Relative, Max wind Interval setting mode”

The right light of second line shows: MAX

When the input sentence is “Relative” wind, please choose this mode.

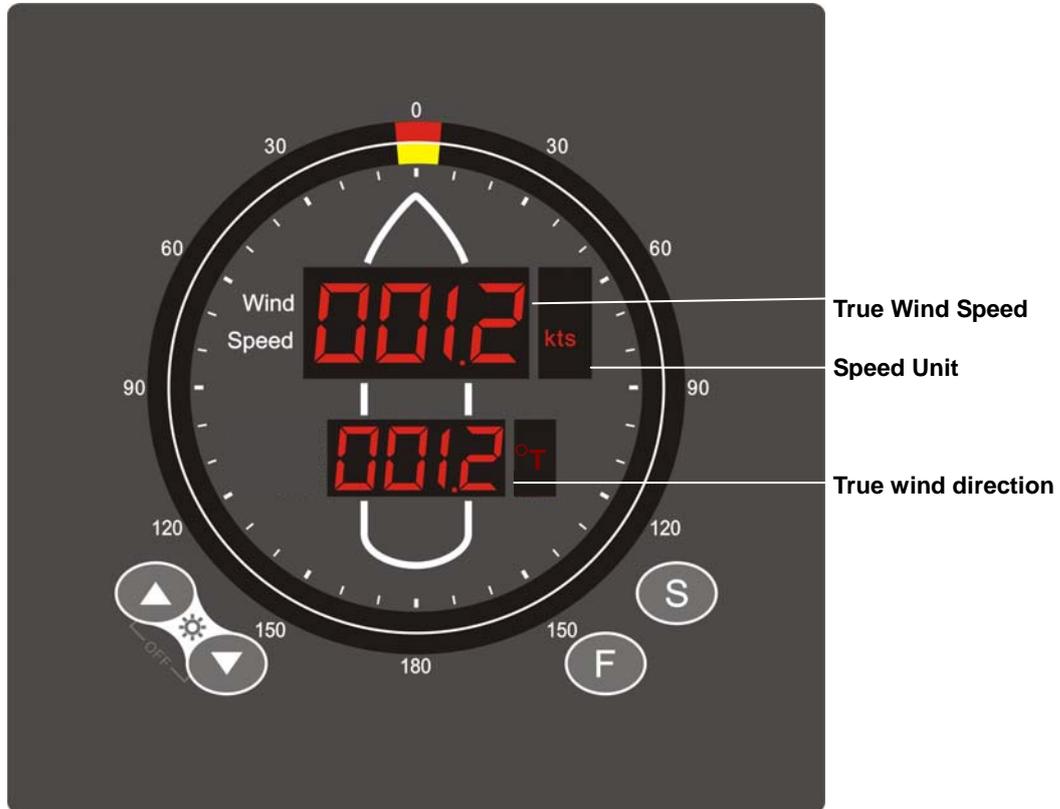
Under “Relative, Max wind Interval setting mode”, press the ▲▼ keys, to select the wind speed interval 1, 2,5,10 minutes.



## Ture mode

The right light of second line shows: °T

When the input sentence is "True" wind, please choose this mode.

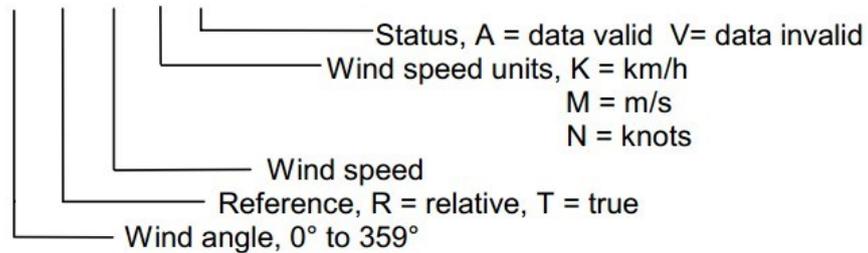


## FUNCTION

Data input: RS422, NMEA0183

NMEA0183 format:

\$--MWV, x.x, a, x.x, a, A \*hh<CR><LF>



ERR alarm: Shows "ERR" when repeater does not receive any signal or the signal is not a NMEA message.

Incorrect alarm: Shows "- - -" when the message is incorrect data.

Other message alarm: Shows "\_ \_ \_" when the messages is other message

Wind input baud rate: 4800 bps

## CONNECTION

WARNING!

The voltage can not exceed 36V. Over voltage damage is out of our warranty.

**RED 24V +**

**BLACK 24V -**

COLOR	SIGNAL	COLOR	SIGNAL
1 RED	NMEA IN+	5 Orange	DIM+
2 BLACK	NMEA IN-	6 Green	DIM-
3 BLUE	NMEA OUT-	7 Yellow	DIMKEY
4 WHITE	NMEA OUT+	8 SHILED	GND

## **SPECIFICATION**

Measurement:	L144mm W144mm H62mm
Flush mounting window:	L125mm W125mm
Weight:	1.4kg
Power & Voltage:	24V DC (20-32V)
Consumption:	2W (24V)

### **Environmental (according to IEC60945 for exposed equipment)**

Work temperature:	-15°C - +55°C
Storage temperature:	-20°C - +70°C
Humidity:	10%-90% relative humidity
Compass safe distance:	85 cm

Note:

Operating in range 0-40°C is recommended and will increase overall lifetime of the product.

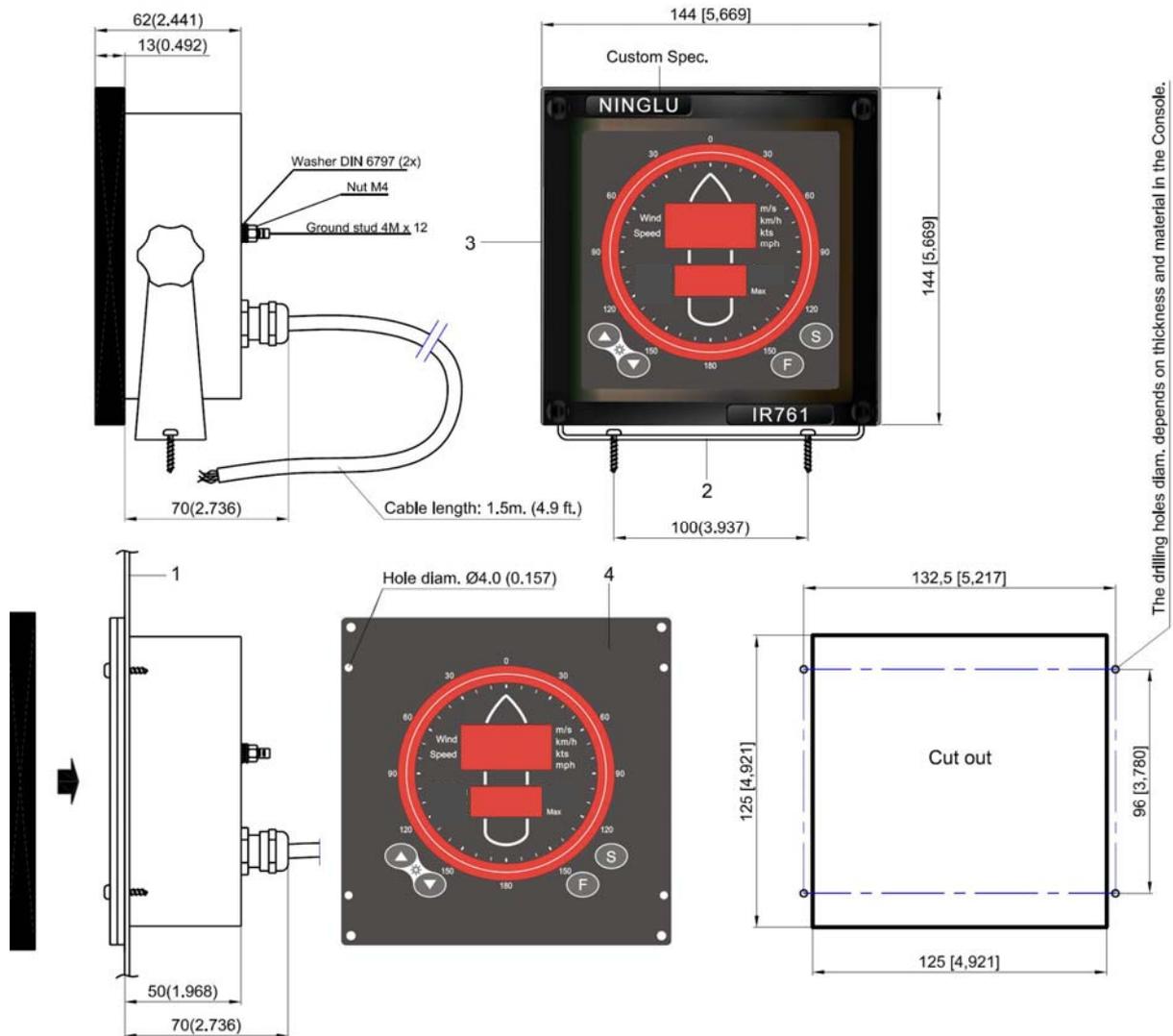
## **USER MAINTENANCE**

The repeater is virtually maintenance free, but occasionally cleaning may be necessary depending on the installation. Please use a soft cloth and only mild cleaning chemicals.

# INSTALLATION

The unit can be mounted in panel, table, wall or ceiling.

1. For tabletop mounting, wall or ceiling mounting use the supplied bracket.
2. For panel (flush) mounting, take off the bracket and take off the front frame. Cut a 125x125mm Din size square window in the panel, fix the inside 4 holes with tapping screws, and put on the front frame again.



## Console mounting order:

- A. Make a cut out in the Console (1) 125 x 125 (4,921 x 4,921)
- B. Remove the mounting bracket (2)
- C. Unscrew the 4 screws in the frame (3) (one in each corner) and remove the frame.
- D. Put the Monitor (4) in the cut out and mark the 4 centerpoints for the Drill in the Console (1)  
(The drilling holes diam. depends on thickness and material in the Console.)
- E. Use Panh. screws DIN 7981 Diam. 2.9 (0.114). Length depends on the Console thickness.
- F. Finally put on the frame (3). Make sure that the screwheads correspond with the cut outs in the frame.