

Display to WindObserver Connection Guide

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### 1. INTRODUCTION

This guide is intended to demonstrate how to connect the WindObserver range to the Meteorological Wind Display.

Display Part Numbers:

1086-PK-120            100-240vAC  
 1086-PK-121            24vDC

### 2. WINDOBSERVER SETTINGS

The WindObserver needs to be configured for 4800 Baud, NMEA output and Full Duplex, together with standard Data/Parity settings, using a suitable terminal package as per the configuration string below:

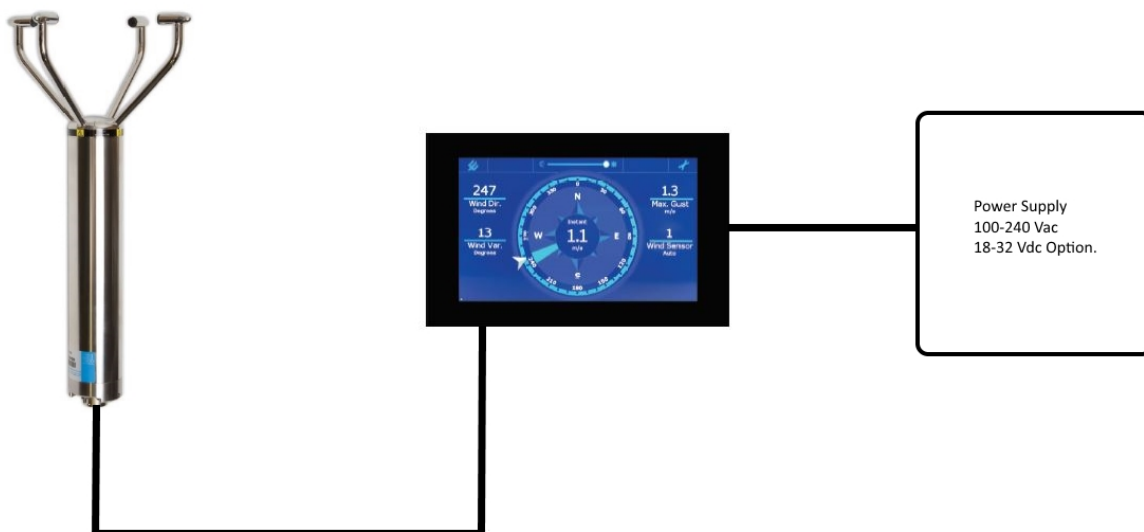
A0 B2 C1 E1 F1 G0000 J1 K1 L1 M5 NA O1 P1 T1 U1 V1 X1 Y1 Z1	Unheated
A0 B2 C1 E1 F1 G0000 H1 J1 K1 L1 M5 NA O1 P1 T1 U1 V1 X1 Y1 Z1	Heated

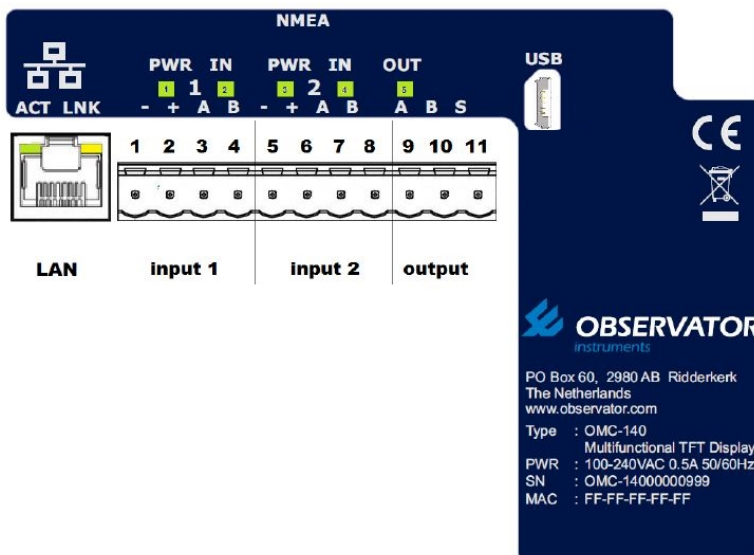
An example of the resultant data string can be seen in the example below:

```
$IIMWV,000,R,000.05,M,A*15
$IIMWV,357,R,000.08,M,A*19
$IIMWV,354,R,000.06,M,A*14
$IIMWV,344,R,000.05,M,A*16
$IIMWV,352,R,000.06,M,A*12
```

### 3. CONNECTION DIAGRAM

System Diagram:





19 Way Connector Terminal Letter	Cable Gland Options		Signal Designation	Wind Display	
	Conductor	Colour		Pin Number	Designation
P	Pair 1	Green	RS422 TXB (+)	4	NMEA Input B
C		Black	RS422 TXA (-)	3	NMEA Input A
U	Pair 2	White	RS422 RXB (+)		N/C
V		Black	RS422 RXB (-)		N/C
R	Pair 3	Red	Supply +	2	Power out +15vdc
D		Black	Supply -	1	Power out Gnd
M	Pair 4	Blue	Digital 0v		N/C

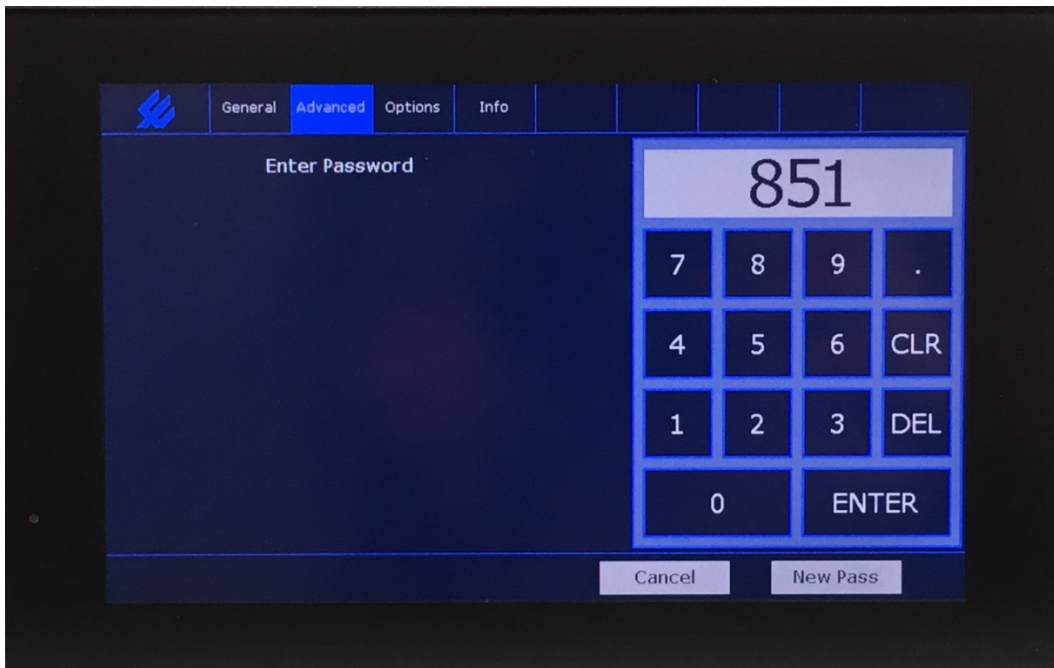
### 4. DATA DISPLAY

When the connections between the WindObserver and the Wind Display have been completed, the display can be powered up. It will start providing wind data as shown below:

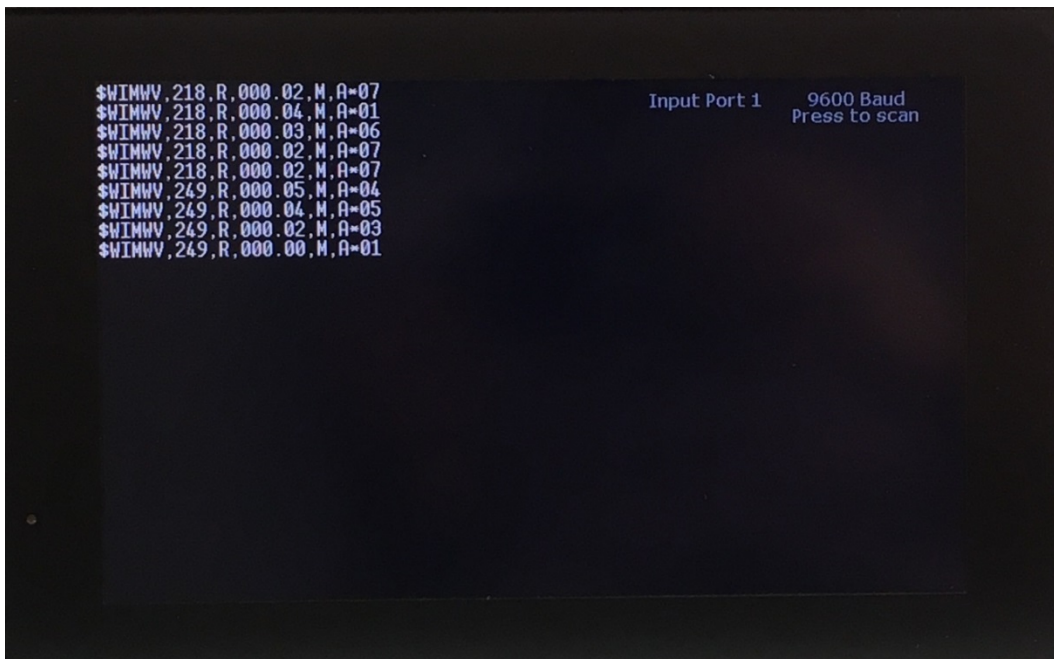


## 5. ALTERNATIVE CONFIGURATION

If the WindObserver is set to a different Baud rate, the display will need to be set to look for the anemometer on this different Baud rate. To do this, select the spanner option in the top right of the display, then select advanced. This will display the keypad as shown:



If the anemometer is connected to input one, enter the code 0851 (the 0 will not display but it must be entered). A terminal will be displayed, press the top right of the screen to scan through the available Baud rates. The display will then cycle through these until it finds the NMEA string from the WindObserver.



Once data has started scrolling, press anywhere on the display to revert back to the keypad and select cancel. The display will begin producing data as shown in section 4.

## 6. SUPPORTING DOCUMENTATION

Supplied on CD 1000-10-034

- OMC-140 Operator Guide Wind.pdf
- OMC-140\_Installation\_Manual\_v1.04\_.pdf
- OMC-140\_Operator\_Manual\_v1.04\_.pdf
- 1086-PS-0055 (this document).