

Display to WindSonic Connection Guide

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1. INTRODUCTION

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

Display Part Numbers:

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

2. WINDSONIC SETTINGS

The WindSonic 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:

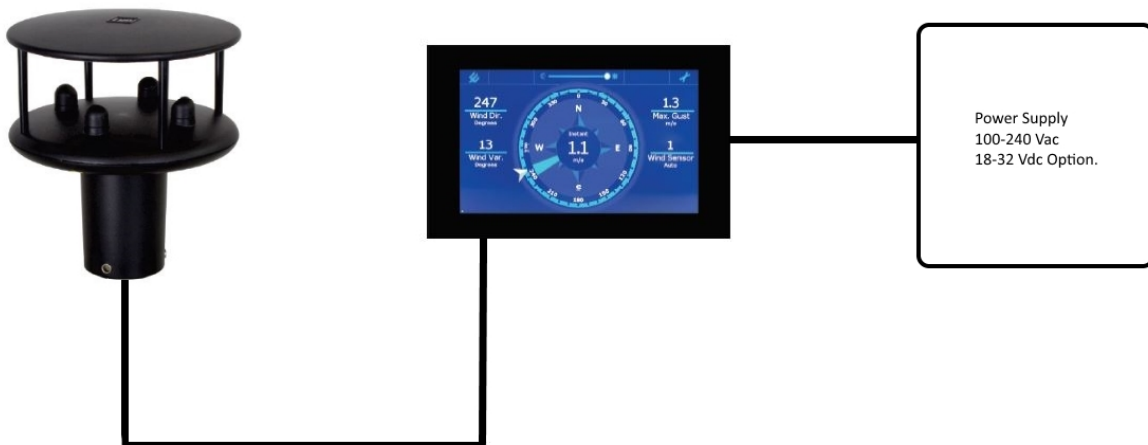
M5, U1, O1, L1, P1, B2, H1, NQ, F1, E2, T1, S4, C2, G0, K50

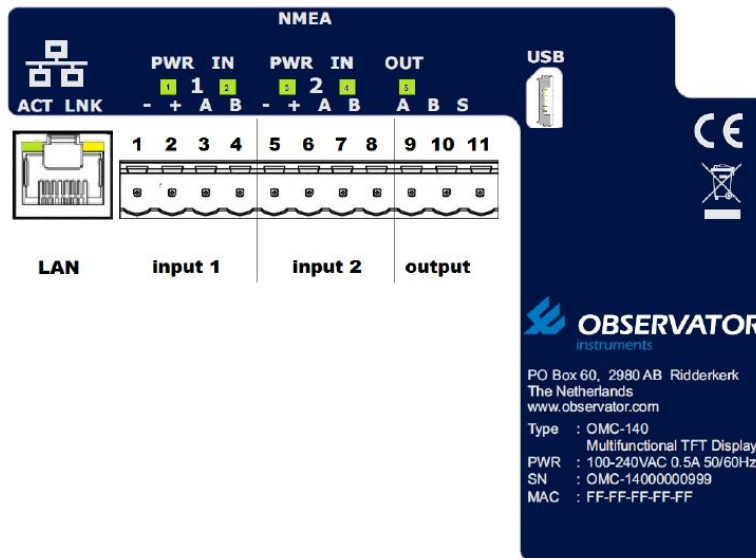
An example of the resultant data string can be seen in the example below:

```
$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 INFORMATION

System Diagram:





WindSonic:

WindSonic			Wind Display	
Signal Name	Pin No		Pin No	Designation
TxD+	4	→	4	NMEA Input B
TxD-	5	→	3	NMEA Input A
Signal Gnd	1		1	Power Out Gnd
V supply +	2		2	Power Out +15vdc
V Supply -	3		1	Power Out Gnd

WindSonic M:

WindSonic			Wind Display	
Signal Name	Pin No		Pin No	Designation
TxD+	4	→	4	NMEA Input B
TxD-	5	→	3	NMEA Input A
V supply +	2		2	Power Out +15vdc
V Supply -	3		1	Power Out Gnd

WindSonic M with Analogue:

WindSonic			Wind Display	
Signal Name	Pin No		Pin No	Designation
TxD+	D	→	4	NMEA Input B
TxD-	E	→	3	NMEA Input A
V supply +	B		2	Power Out +15vdc
V Supply -	C		1	Power Out Gnd

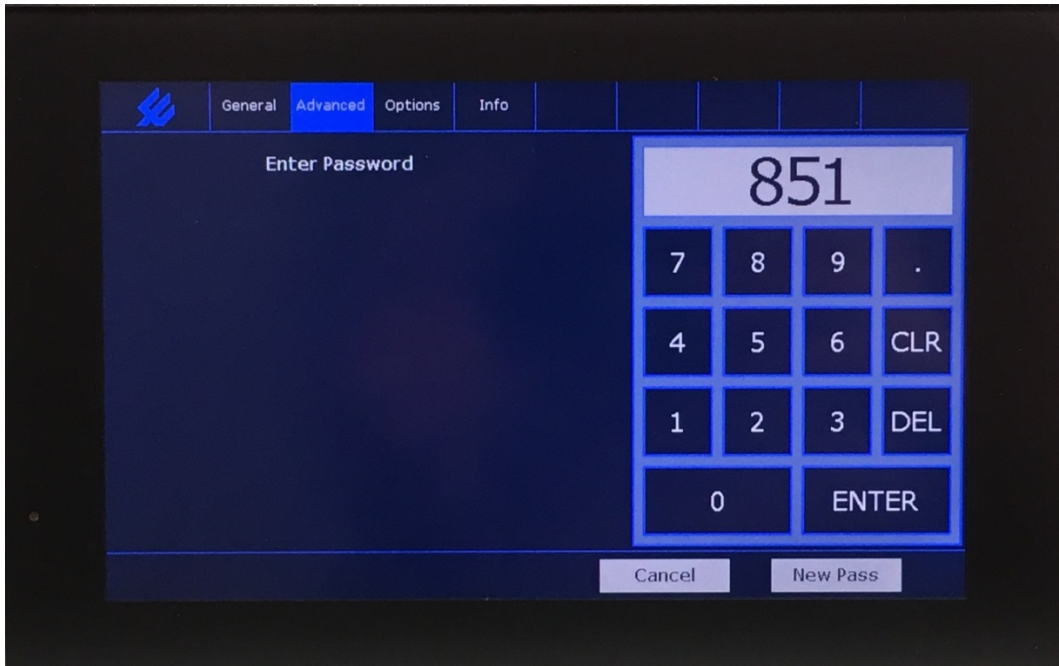
4. DATA DISPLAY

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

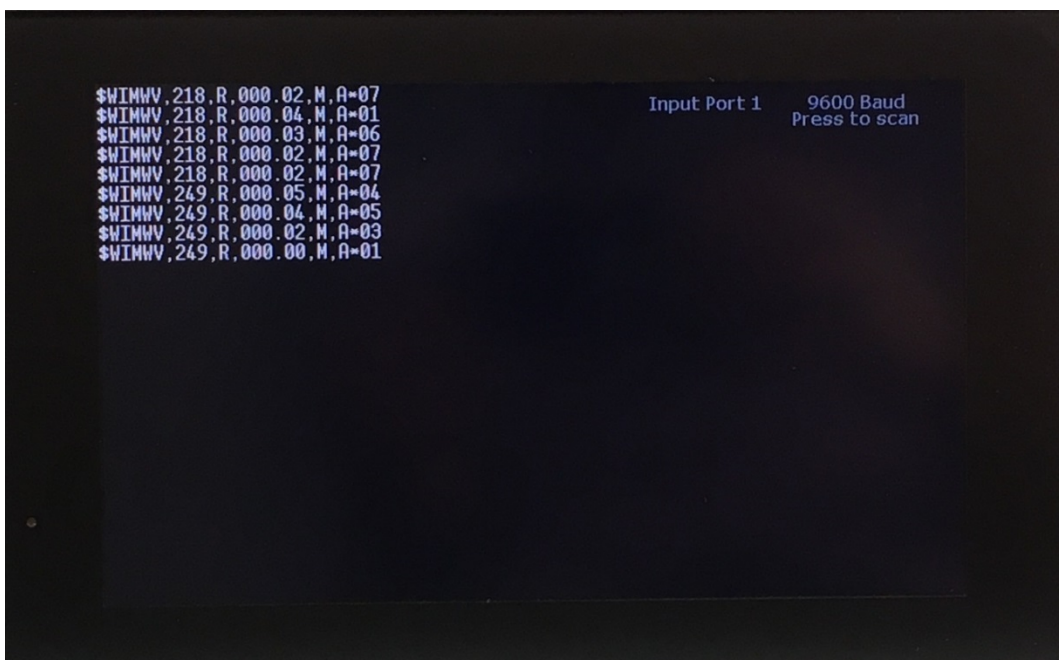


5. ALTERNATIVE CONFIGURATION

If the WindSonic 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 WindSonic.



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-0056 (this document).