

WX-01 Simple Weather Station

Introduction

WX-01 Simple weather station is designed for working with GW-1000 APRS interface. It will supply weather information to GW-1000.

WX-01 measures temperature, relative humidity & barometric pressure.

Features

- Direct connection to GW-1000.
- BMP180 digital barometric pressure sensor.
- AM2320 digital temperature & relative humidity sensor.
- Expand connections for wind speed & direction sensors.

Connection

WX-01 has a cable with 3 wires to directly connect to the serial port of GW-1000.

Wire color	Function	DB9 port of GW-1000
Red	+5VDC	Pin. 1
Black	Ground	Pin. 2
Yellow	Data	Pin. 6

Care is to be taken of voltage drop between WX-01 and GW-1000. If you put WX-01 more than 3 meters away of the GW-1000, please use a cable with enough thickness to avoid voltage drop. Otherwise supply the 5V DC separately to WX-01.

WX-01 has 2 extra connections to optionally supplied wind & rain sensors.

Operation

- Power-off the GW-1000 first, connect the cable to the GW-1000 data port according to the above table.
- Power-on the GW-1000.
- Run GW-1000 configuration on the computer. In the weather station tab, set IS Report or RF Report more than 0.
- Save the configuration, GW-1000 will restart.
- Re-connect to GW-1000 in the configuration. Now you could read the weather information in the Status tab.

For correct readings, WX-01 is to be put into a Stevenson screen or instrument shelter which protects the unit against precipitation and direct heat radiation.

https://en.wikipedia.org/wiki/Stevenson_screen

Be aware that WX-01 is not waterproof.