Interfacing CWS Weather Stations to DNP3 Systems

CWS's Weather MicroServer offers DNP3 ethernet or serial RS-485 communication to interface CWS weather stations with process automation systems used primarily in utilities such as electric and water companies.

DNP3 was developed for communications between various types of data acquisition and control equipment It plays a crucial role in SCADA systems where it is used by SCADA Master Stations (aka Control Centers), Remote Terminal Units (RTUs), and Intelligent Electronic Devices (IEDs).[1] For network setup, please refer to the System Diagram on page 2.

The Weather MicroServer offers features including additional sensors and monitoring options such as the Weather Display.
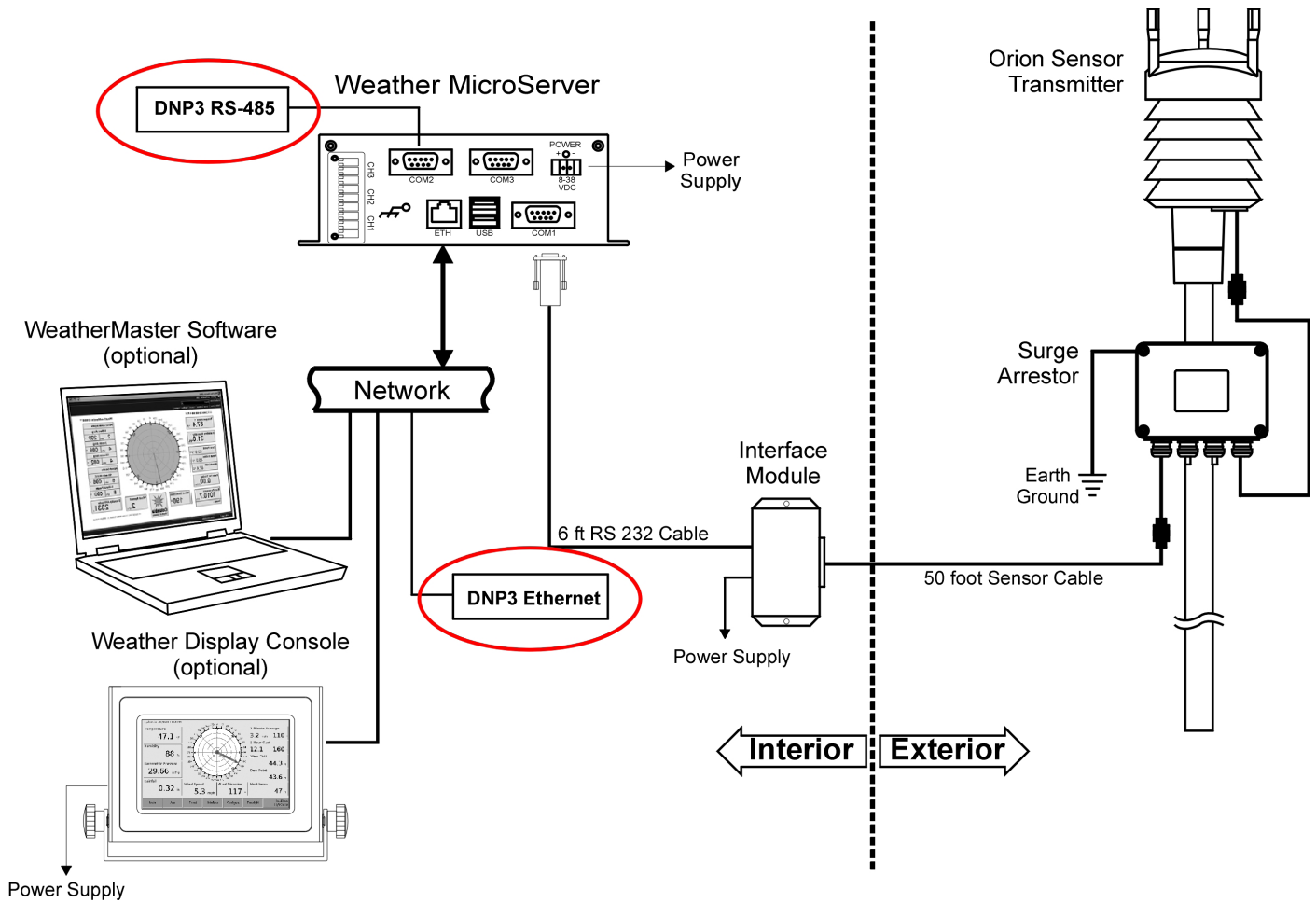

(L-R) The Weather MicroServer and Orion Sensor Transmitter

References:

[1]"DNP3." Wikipedia: The Free Encyclopedia. Wikipedia Foundation, Inc., Date last updated (06 March 2017). Web. Date accessed (23 March 2017).

![Columbia Weather Systems logo]

System Diagram for DNP3 Ethernet or Serial RS-485 Interface
(shown with Orion sensor module)

Weather MicroServer

DNP3 RS-485

COM2 COM3 POWER 8-38 VDC

CH3 CH2 CH1

ETH USB COM1

Power Supply

Orion Sensor Transmitter

WeatherMaster Software (optional)

Network

Surge Arrestor

Earth Ground

Interface Module

6 ft RS 232 Cable

DNP3 Ethernet

50 foot Sensor Cable

Power Supply

Weather Display Console (optional)

Interior | Exterior

Power Supply

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