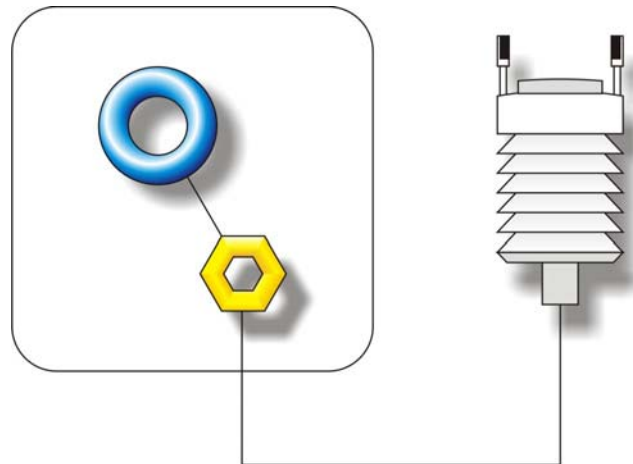


Product Engineering Guide

OSM v20 VaisalaWXT v10

Introduction

The VaisalaWXT OSM links a Vaisala WXT520/510 Weather Station to Observer. The VaisalaWXT OSM can retrieve wind speed information, air pressure and temperature, precipitation information and voltage information from the WXT unit.



Engineering

Step 1 – Install OSM

The Viterra OSM is installed automatically with all ObSys editions. Refer to the 'ObSys CD sleeve' for details on how to install ObSys.

Step 2 – Configure Vaisala unit

The Vaisala unit should be configured for the ASCII communications protocol.

Step 3 – Connect COM Port to Vaisala Unit

Using cable, connect the Vaisala to a COM port of the PC. Refer to the section 'Cable' below for details of the cable. Please Note: The Vaisala 8-pin M12 connector is also used to supply power to the unit.

Step 4 – Plug in VaisalaWXT OSM to ObServer

Use object engineering software to locate the ObServer Setup object. Assign the VaisalaWXT OSM to an available channel. Refer to '[ObServer v10 Application Engineering Guide](#)'.

Note: After inserting the OSM, your engineering software may need to re-scan the ObServer object in order to view the OSM.

Step 5 – Configure VaisalaWXT OSM

The COM port, baudrate, precipitation reset period, and alarm destination are configured using objects. Use object engineering software to view and modify the module objects within the OSM.

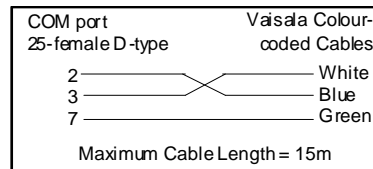
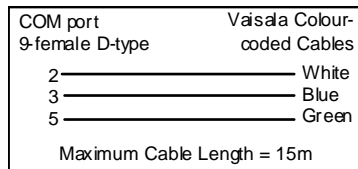
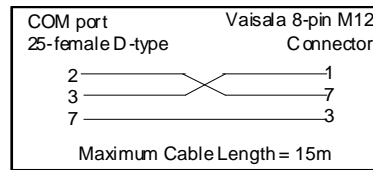
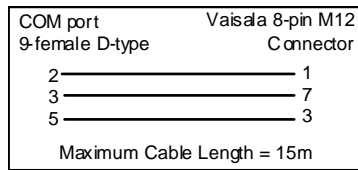
Step 6 – Access Objects within the Viterra System

Values from the Viterra system are made available as objects from ObServer. Any object software that is connected to the ObServer can access these objects.

Engineering Reference

Cable Specification

The cable between COM port and the Vaisala unit is as follows:



Objects

When the OSM is loaded the following objects are created within ObServer, use object software to access these objects.

Object ^[1]	Label	R/W	Type
Sc	Viterra System connected to channel c	-	[VaisalaWXT v10] ^[2]
Mc	Viterra Module connected to channel c	-	[OSM v20\VaisalaWXT v10]

Notes

- [1] The ObServer channel number, c, is a number in the range 1...40.
- [2] This object has a variable content and as such requires scanning.