

# Product Engineering Guide

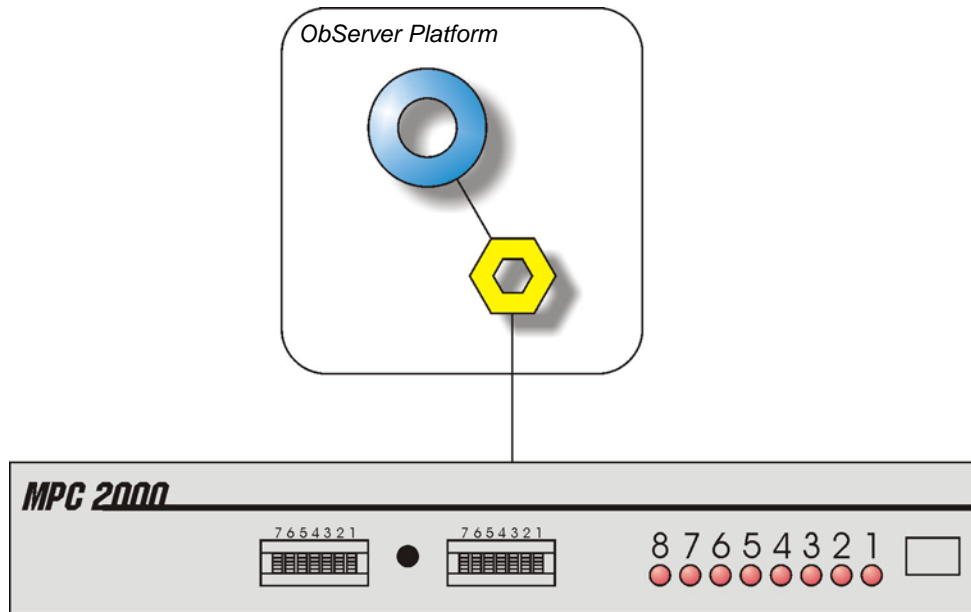
## OSM v20 TekAir v11

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### Introduction

The TekAir OSM links the Tek-Air MPC-2000 Gateway using the Tek-Air Open Protocol to the ObServer. Up to 63 Tek-Trak controllers or 255 FVC-2000 fume hood controllers/IsoTek isolation room monitors can be accessed from a single MPC-2000 Gateway.

The Tek-Air open protocol allows access to values, stored in a table of variables, within the Tek-Trak controller. As the values available differ in each controller, this driver has extended decode methods that can be applied to raw data to produce useful values.



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## **Engineering**

### **Step 1 – Install OSM**

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

### **Step 2 – Configure Tek-Air MPC-2000 Gateway**

The MPC-2000 should be set up to communicate with Compass at 9600 baud, No parity, 8 databits. Refer to MPC-2000 Gateway documentation for port number supporting the Open Protocol.

### **Step 3 – Connect COM Port to Tek-Air MPC-2000 Gateway**

Using cable, connect the TekAir to a COM port of the PC. Refer to the section 'Cable' below for details of the cable.

### **Step 4 – Plug in TekAir OSM to ObServer**

Use object engineering software to locate the ObServer Setup object. Assign the TekAir 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 TekAir OSM**

The COM port, device label and the value formula are configured using objects. Use object engineering software to view and modify the module objects within the OSM.

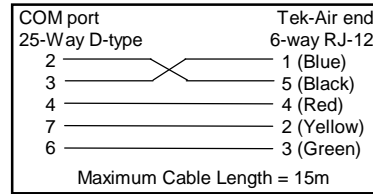
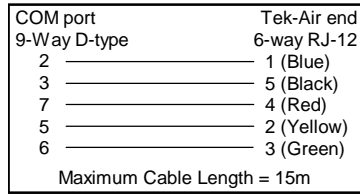
### **Step 6 – Access Objects within the Tek-Air MPC-2000 Gateway**

Values from the Tek-Air MPC-2000 Gateway 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 Tek-Air Gateway RJ-12 connector is as follows:



## Objects

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

Object <sup>[1]</sup>	Label	R/W	Type
Sc	TekAir System connected to channel c	-	[TekAir v11] <sup>[2]</sup>
Mc	TekAir Module connected to channel c	-	[OSM v20\ TekAir v11]

### 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.