Vapor Monitor Interface Module

Installation Guide



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Introduction

General

- This manual contains procedures to install a Vapor Monitoring Controller Interface (VMCI) module into a TLS-350 Plus or TLS-350R console.
- When installed in the TLS console, the VMCI interface module is used as a RS-485, 2-wire serial interface on the dispenser's VMC network.
- Up to 18 VMC controllers can be monitored by the VMCI interface module.
- The TLS console can support only one VMCI interface module.
- After installing the VMCI interface module, refer to manual 576013-623 for setup instructions.
- For additional information regarding interface modules, refer to the TLS-3XX System Setup manual. If this is a new installation or if site preparation is necessary, refer to the TLS-3XX Site Preparation and Installation manual, or contact your Veeder-Root representative for assistance.

Interface Requirements

TLS CONSOLE SOFTWARE REQUIREMENTS

Console system software: 346128-XXX, or 346328-XXX (or higher)

DISPENSER VMC SOFTWARE REQUIREMENTS

- For UK: VMC_VRB_V201UK
- For DE: VMC_VRB_V201DE

Contractor Certification Requirements

Veeder-Root EMEA require Technicians working to install and setup TLS-3XX consoles, probes, sensors and interfaces to have a valid Certification of Competence in TLS-3XX Installation and Setup.

For information on how to become certified, please contact your local Veeder-Root representative.

Related Manuals

576013-623 TLS-3XX Series System Setup Manual

Safety Symbols

The following safety symbols are used throughout this manual to alert you to important safety hazards and precautions.



Safety Warnings



Installation

The VMCI module is installed in the TLS console's comm bay and then connected to the network junction box.

VMCI Module Configuration

Examine the VMCI module and make sure the JMP4 jumper is in the position shown in Figure 1 (over the 2 right-hand pins).

Important! if this jumper is over the two left-hand pins, the VMCI module will be disabled.





Installing the VMCI Module in the Console

- 1. Archive system data.
- 2. Open the left door of the console.
- 3. Verify that the battery backup switch is in the Off position, then turn Off power to the console (see Figure 2) to perform a cold boot of the system.



Figure 2. TLS-350 Series Battery Backup Switch Location

- 4. Avoid shorting high voltage across any component or module to the intrinsically safe section of the console. This could result in an explosion near the device.
- 5. Remove the blank cover plate from an open slot in the communication compartment. Important Note: The VMCI Module can only be installed in slots 1, 2, or 3 of the console's Comm Bay card cage (Figure 3).

If your console has a snap connector which secures the cover plate in the card cage, pull it out and lift out the cover plate.

If your console has "knockout" cover plates, open the printer door and insert a flat blade screw driver in the slot provided in the front of the cover plate you are removing and twist it to break the front set of metal securing tabs (Figure 3). Once the front tabs are broken, carefully rock the loosened end of the plate until the rear set of securing tabs break. Remove and discard the cover plate.

- 6. Slide the module into the open slot until the motherboard connector is snugly seated. Do not apply excessive force when installing the module. With your thumb, push in the black retaining fastener on the end plate until it snaps into the hole in the card cage.
- 7. When you are finished, make sure any unused slots in the comm cage have a blank end plate installed.



8. Check that the 5-pin plug in the module's bracket is accessible through the slot opening in the bottom of the console once the module is installed.

Connecting the VMCI Module to the Network

- 1. Refer to Figure 4 and locate the appropriate terminal block inside the junction box.
- 2. Connect the data cable leads to the terminal block as shown in Figure 4 (refer to Table 1 for the required data cable specifications). The junction box's screw terminal positions could vary, so refer to manufacturer's installation manual. When wiring to the junction box, keep wires physically separated by spacing them away from any other wiring or conduits.



Cable Type	2 x twisted pair, PVC insulated, foil wrapped, common drain			
Conductor Stranding	7/0.25 mm			
Characteristic Impedance	58 ohms			
Capacitance	203 pF per metre			
Attenuation	5.6 dB per 100 m			
Operating Temp. Range	-30°C to +70°C			
Insulation	PVC			
Sheath	Polyethylene			
Sheath Colour	Grey			
Core Colours	Black, red, green, white			
Nominal Outside Diameter	4.2 mm			
Recommended UK Supplier:	RS Components Ltd., Stock number (500metre drum) 528-1967			

Table 1	Data	Transmission	Cable	Specifications	(\/_R D/N	4034-0147)
Table I.	υαια	1141151111551011	Caple	Specifications		4034-0147)



