

Features

- Bi-directional data transmission between the wayside system and the vehicle equipment
- Data transmission speed 50x faster than VETAG
- Data messages contain 13 bytes vs VETAG 19 bits
- Increased reliability (CRC 16 and parity check)
- System supports up to 8 loop antennas
- Buy America compliant

Benefits

- Space saving 42HP EMC approved enclosure
- Reduction in cost (especially in large installations) due to elimination of loop antenna tuning

Introduction

The VECOM Wayside System 5184 (VWS-5184) is the latest VECOM Wayside Equipment to be used when bi-directional data transmission between the wayside system and the vehicle equipment and an 8-relay output interface is required.

Basic Functionality

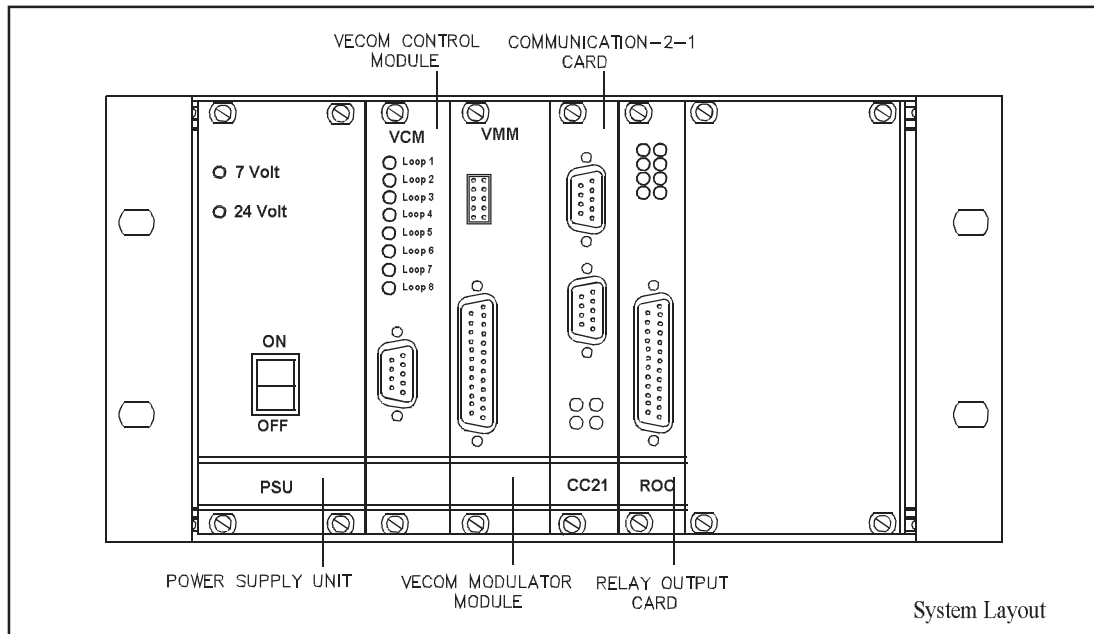
The basic functions of the VWS-5184 are:

- Selects a loop antenna
- Transmits an interrogation signal via the selected loop antenna and switches the loop antenna to receiving
- When no signal has been received within a certain time, selects the next loop antenna and transmits another interrogation signal
- When a transponder is positioned over the loop antenna it will respond to the interrogation signal by transmitting a message with the vehicle identification code to the VWS-5184
- After validation and acceptance of this message, the message is processed by the Comm-2-1 Card resulting in a predefined relay-output card setting

Additional Functionality

The following additional VWS-5184 functions are available:

- Daily upload of route and/or schedule information
- Daily download of passenger counting information, schedule adherence information and trip log information
- Ready for AVL and real-time information
- "Next Stop" display and audio announcements
- Schedule adherence information on the driver's display
- Interface to WLAN system
- Interface to GPRS system



Specifications

VMM-Card	Loop Antenna Interface	1 ~ 8 Loop Antennas
	Serial Interface	1x RS485
VCM-Card	Serial Interface	1x RS232 for configuration/diagnostic purposes
	Serial Interfaces	2x RS232/RS485
Communication-2- Card	Parallel Interfaces	8x opto-coupler isolated outputs
	Optional Interface	Ethernet
Relay Output Card	Parallel Outputs	8x NC or NO Relay contacts
	Backplane Interface	I2C-Bus
Power Requirements	Power Consumption	110 VAC < 2A
	Input Voltage	85 - 140 VAC, 47 - 63 Hz
Environment	Temperature	-13 ~ +158 °F (-25 ~ +70 °C), Operating
	Humidity	-95% @ 104 °F (+40 °C) (non-condensing), Operating
	Vibration Resistance	1 Grms, IEC 60068-2-64, Random, 5 ~ 500 Hz, 1 Oct/min, 1 hr/axis, Operating
	Shock Resistance	20 G, IEC 60068-2-27, half sine, 11 ms, Operating
Physical Characteristics	Construction	EMC approved 3U, 42 HP enclosure
	Mounting	Stand alone or 19" rack mounting
	Dimensions (WxHxD)	9.00" x 5.25" x 9.50" (228 x 133 x 241mm))
	Weight	6.0 lb (2.72 kg)

Ordering Information

Part Number	Description
6950 0000 5184	VECOM Wayside System (VWS-5184)