



VECOM INTERROGATOR



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
- Error logging
- Message logging – logs all messages with date and time stamp

Note: Ethernet version shown above

Introduction

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

Basic Functionality

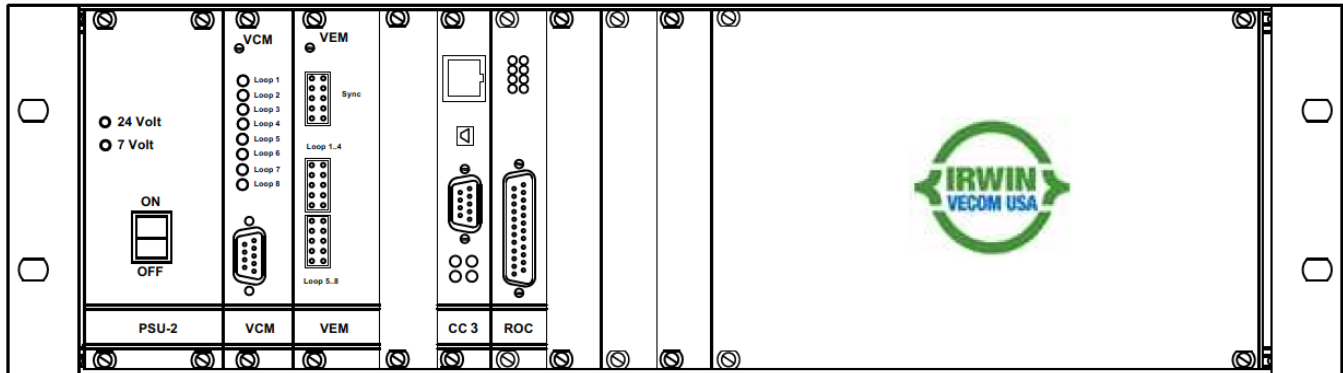
Basic functions of the VECOM Interrogator:

- . 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 VECOM Interrogator
- . 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 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 - Optional
- . "Next Stop" display and audio announcements - Optional
- . Schedule adherence information on the driver's display
- . Interface to WLAN system
- . Interface to GPRS system



Power Supply Vecom Control Module Vecom Extension Module Comm Card Relay Output Card

Note: Serial version shown above

Specifications

| | | |
|--------------------------|------------------------|---|
| VEM Card | Loop Antenna Interface | 1 ~ 8 Loop Antennas |
| | Serial Interface | 1x RS485 |
| VCM Card | Serial Interface | 1x RS232 for configuration/diagnostic purposes |
| COMM Card | Serial Interfaces | 2x RS232 / RS485 |
| | Parallel Interfaces | 8x opto-coupler isolated outputs |
| | Optional Interfaces | Ethernet - Modbus |
| Relay Output Card | Parallel Outputs | 32 x NC or NO relay contacts |
| | Backplane Interface | 12C-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 Gms, IEC 6068-2-64, Random, 5 ~ 500 Hz, 1 Oct/min, 1 hr/axis, Operating |
| | Shock Resistance | 20G, IEC 60068-2-27, half sine, 11 ms, operating |
| Physical Characteristics | Construction | EMC approved 3U, 84 HP enclosure |
| | Mounting | Stand alone or 19" rack mounting |
| | Dimensions (WxHxD) | 19.00" x 5.25" x 9.50" (483 x 133 x 241 mm) |
| | Weight | 12.0 lb (2.7 kg) |

Ordering Information

| Part Number | Description |
|----------------|---|
| 6950 0000 7020 | VECOM Interrogator - 4 loop |
| 6950 0000 7028 | VECOM Interrogator - 8 loop |
| 6950 0000 7124 | VECOM Interrogator w/ Ethernet - 4 loop |
| 6950 0000 7128 | VECOM Interrogator w/ Ethernet - 8 loop |