

Features

- New EMC approved enclosure
- Buy America compliant
- Integrated Loop Data Display Card
- New integrated Automatic Loop Scanner
- New Power Supply with lightning protection
- No Filter-V's required
- TCP/IP Interface
- Optional GPRS interface available

Benefits

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

Introduction

The VETAG -2 Interrogator-5370 (VI-5370) is a new generation VETAG Interrogator. The major improvements compared to the existing VETAG Interrogator in addition to the above mentioned features are: all components have front plates and all connectors are type Sub-D. The VI-5370 configuration consists of the standard VETAG Interrogator section (Transmit/Receive Card, Loop Scan Timing Card and Shift Register/Buffer Card) with an additional Automatic Loop Scanner, new COMM-2-2 Card, Relay Output Card and Data Loop Display Card (for details please refer to the system layout on page 2 of this data sheet).

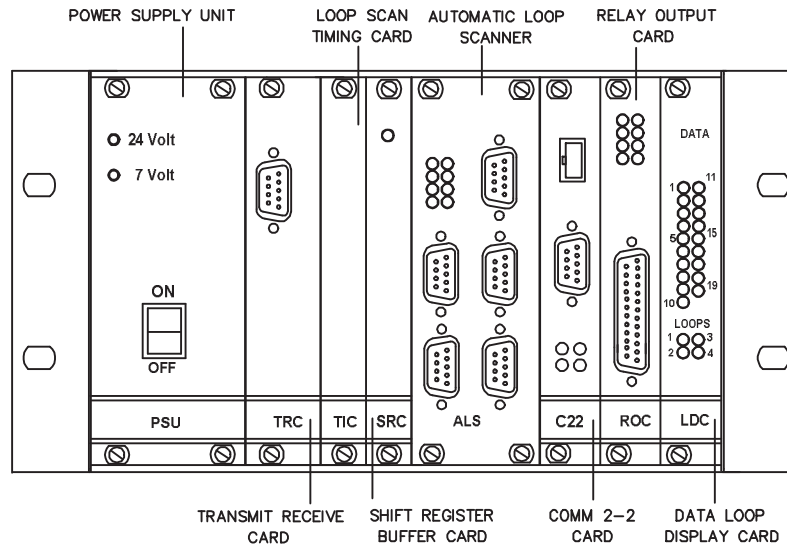
Basic Functionality

The basic functions of the VI-5370 are:

- Transmits a 100kHz signal, via the Loop Antenna, to interrogate any Transponder within the range of the Loop Antenna
- Receives data messages from the Transponder in range of the Loop Antenna
- Checks the received data messages for the presence of correct start and stop bits
- Performs the comparison between two successive data messages and validates only after they have been found identical
- Processes the received data messages and outputs them through the output buffer to the application boards which in this configuration are the COMM-2-2 Card and the Data Loop Display Card

New Components

- The Automatic Loop Scanner continuously fine-tunes the connected Loop Antennas resulting in maximum inductive communication performance between the VETAG vehicle and the wayside equipment. This unit also eliminates the need for Filter-V's.
- The Communication-2-2 Card has been developed based on customer requirements resulting in the following new features:
 - One (1) serial port for standard RS232 interfaces for direct or modem connection
 - One TCP/IP interface for real-time event monitoring (software development required for customer specific TCP/IP interface protocol is included)
 - SD-Card slot for data logging purposes
 - New PTU Application Software package with numerous new functions such as event reporting/analysis
 - I²C-Bus for controlling multiple relay cards



Specifications

Interrogation Frequency	100 kHz Xtal stabilized
Current to Loop Antenna	Adjustable 100 - 400 mA
Duration of Int. Pulse	2 ms
Repetition Frequency	41.25 Hz
Loop Dimensions	Minimum width 2 ft (61cm), Maximum perimeter 52.5 ft (16m)
COMM-2-2 Card	TCP/IP Interface
	Serial Interfaces 1x Standard RS232
	I ² C-Bus Interface
	SD-Card Interface
Relay Card	8 Parallel Outputs NC or NO Relay Contacts
	I ² C-Bus Interface
Power Requirements	Power Consumption 110 VAC 50 mA
	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 Aluminum housing
	Mounting Stand alone or 19" rack mounting
	Dimensions (WxHxD) 9" x 5.25" x 9.5" (228 x 133 x 241mm)
	Weight 6 lb (2.72 kg)

Ordering Information

Part Number	Description
6950 0000 5370	VETAG -2 Interrogator

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VECOM USA is proud to be ISO 9001:2000 Certified

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