

### Features

- NEW VETAG Interrogator Controller
- New EMC approved enclosure
- Buy America Compliant
- Integrated Loop Data Display Card
- New integrated Automatic Loop Scanner
- No Filter-V required
- New Power Supply with lightning protection
- Optional TCP/IP interface available

### Benefits

- Reduction in cost (especially in large installations) due to elimination of loop antenna tuning

### Introduction

The VETAG Interrogator-5366 (VI-5366) is a new generation of VETAG Interrogators. The major improvements compared with the existing VETAG Interrogators are : all components of the VI-5366 have front plates and all connectors are Sub-D type. The VI-5366 configuration consists of our new VETAG Interrogator Controller (VIC) with an additional Automatic Loop Scanner, new COMM-2-1 Card and Relay Output Card (please refer to interface specifications on page two of this data sheet).

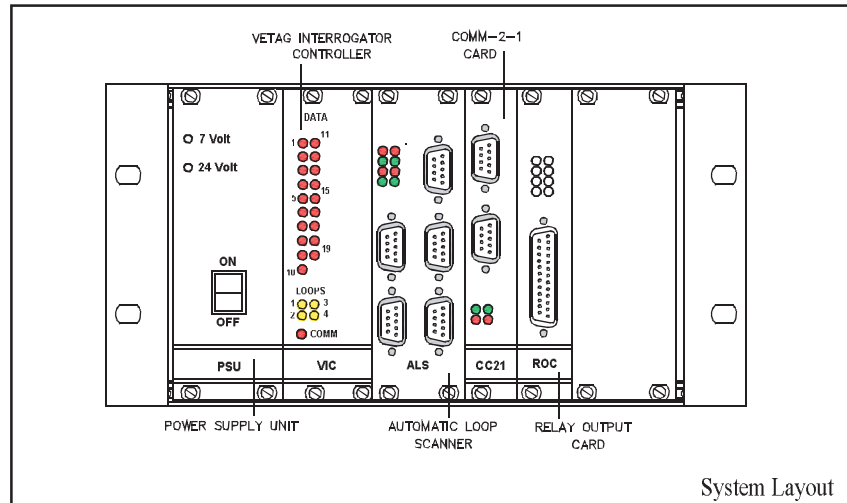
### Basic Functionality

The basic functions of the VI-5366 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 are located in the COMM-2-1 Card

### New Components

- The NEW VETAG Interrogator Controller (VIC) replaces the current transmit/receive card, loop scan timing card, shift register/buffer card and loop data display card. The additional benefits of this unit are integrated loop data display and reduction in space
- 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-Vs
- The Communication-2 Card has been developed based upon customer requirements resulting in the following new features:
  - One (1) serial port for standard RS232 interfaces for direct or modem connection
  - One (1) serial port for customer specific signaling equipment interfaces such as Genesys, MikroLok, VHLC or others (software development required for customer specific interface protocols is included in purchase)
  - SD-Card slot for data logging purposes
  - New PTU Application Software package includes new functions such as event reporting/analysis
  - TCP/IP interface for real-time event monitoring
  - I<sup>2</sup>C-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-2-1 Card	Serial Interfaces	1x Standard RS232/RS485 and 1x Customer Specific interface
	Parallel Interface	8 Opto-coupler isolated outputs
	I <sup>2</sup> C-Bus Interface	for internal backplane connections
Relay Output Card	8 Parallel Outputs	NC or NO Relay Contacts
	I <sup>2</sup> C-Bus Interface	for internal backplane connections
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 5366	VETAG Interrogator (VI-5366)

VECOM USA, LLC 4803 George Road, Unit 300, Tampa, FL 33634 Tel: 813 901-5300 Fax: 813-433-2458

Website: www.vecom-usa.com E-mail address: Info@vecom-usa.com

VECOM USA is proud to be ISO 9001:2000 Certified

Information is subject to change due to new developments and technology. All rights reserved. September 2006