



### Features

- 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
- Optional GPRS interface available

### Benefits

- Reduction in cost (especially in large installations) due to elimination of loop antenna tuning
- Up to 4 relay boards controlled by 1 Communication 2-1 Card

### Introduction

The VETAG Interrogator-2 (VI-5136) is a new generation of VETAG Interrogators. The VI-5136 configuration consists of a standard VETAG Interrogator-2 module, an Automatic Loop Scanner (ALS), a Communication-2-1 Card (CC21) and a Loop Data Display Card. The major improvements compared with the existing VETAG Interrogators are: all components of the VI-5136 have front plates, all connectors are Sub-D type, a new power supply enables installation of two (2) complete VI-5136's into one 19" rack and the new COMM-2-1 Card with I<sup>2</sup>C-Bus enables a configuration of up to seven (4) Relay Output or Opto-Coupler Input Cards.

### Basic Functionality

The basic functions of the VI-5136 are:

- Transmits a 100kHz signal, via the loop antenna, to interrogate any transponders within the range of that 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

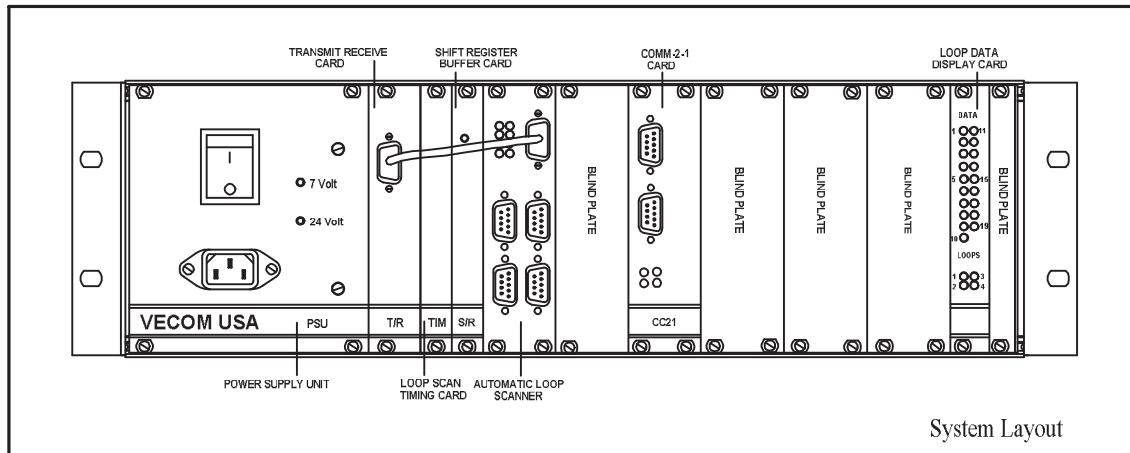
### LED Indicators

Located on the front panel of the ALS are four red and four green LED indicators. Each loop antenna has a green and a red LED indicator. Approximately every 10 interrogations the ALS will measure the signal strength of each loop antenna. If the signal strength is too low, the LED indication for that particular loop antenna will be red. If the measured signal strength is within the acceptable range, the LED indication will be green. If no loop antenna is detected, the LED indicators for that loop antenna will be off.

### Installation

When installing the VI-5136 the following connections need to be made:

- Connect the AC-power cord to an AC-outlet
- Connect each existing loop antenna feeder cable terminated on a distribution block with the ALS by using the supplied loop scanner input cables to be installed between the ALS and the distribution block
- Connect the RS232 interface cable (supplied by the customer) between the COMM-2-1 Card and the Genesys or MikroLok System



### 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 serial Interface
	Parallel Interface	8x Opto-coupler isolated outputs
	I2C-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)	6.69" x 5.11" x 2.75" (170 x 130 x 70mm)
	Weight	2.4 lb (1.08 kg)

### Ordering Information

Part Number	Description
6950 0000 5136	VETAG Interrogator-2 (VI-5136)