VETAG-2 INTERROGATOR 5368

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
- Optional TCP/IP interface available

Benefits

- Reduction in cost (especially in large installations) due to elimination of Loop Antenna tuning

Introduction

The VETAG-2 Interrogator-5368 is the latest generation of the VETAG Interrogator. The VETAG-2 Interrogator 5368 configuration consists of the Power Supply, Transmit/Receive Card, Loop Scan Timing Card, Shift Register/Buffer Card, Automatic Loop Scanner, COMM-2-1 Card, Relay Output Card, and Loop Data Display Card.
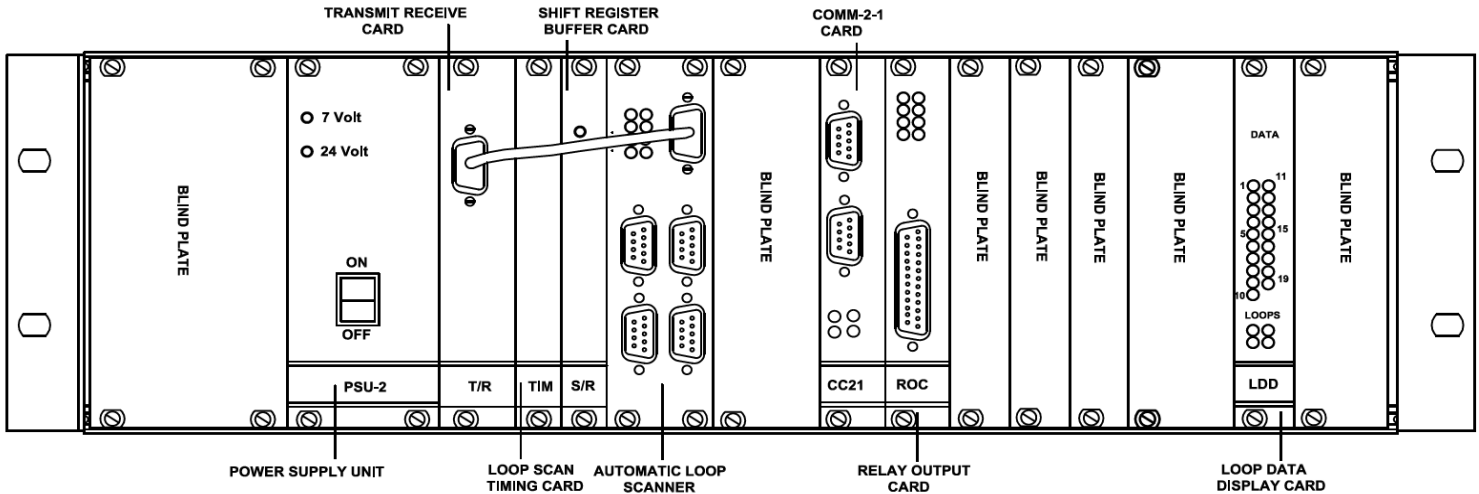
Basic Functionality

Basic functions of the VETAG-2 Interrogator 5368:

- 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 within 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-2-1 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 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 (1) serial port for customer specific signaling equipment interfaces such as Genesys, VHLC or others (software development needed for customer specific interface protocols is free of charge)

    SD-Card slot for data logging purposes

    New PTU Application Software package with numerous new functions such as event reporting/analysis

    TCP/IP interface for real-time event monitoring

    I^2C-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 and 1x Customer Specific interface
	I²C-Bus Interface	
	SD-Card Interface	
Relay Card	8 Parallel Outputs	NC or NO Relay Contacts
	I²C-Bus Interface	Up to 32 Ooutputs
Power Requirements	Power Consumption	110 VAC 50 mA
	Input Voltage	85 - 140 VAC, 47 - 63 Hz
Environment	Temperature	-13 ~ +158 °F (-25 ~ +70 ℃), 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, EMC Protected
	Mounting	Stand alone or 19" rack mounting
	Dimensions (WxHxD)	19" x 5.25" x 9.5" (228 x 133 x 241mm))
	Weight	6 lb (2.72 kg)

Ordering Information

Part Number	Description
6950 0000 5368	VETAG-2 Interrogator