



Features

- Easy connection between Code Control Box and HP2 Transponder
- No external power required
- Log-files stored on removable SD-Card
- “Real Time” monitor interface available
- User-friendly PC reporting application

Benefits

- Efficient tool for resolving vehicle to wayside communication problems
- Portable and easy installation

Introduction

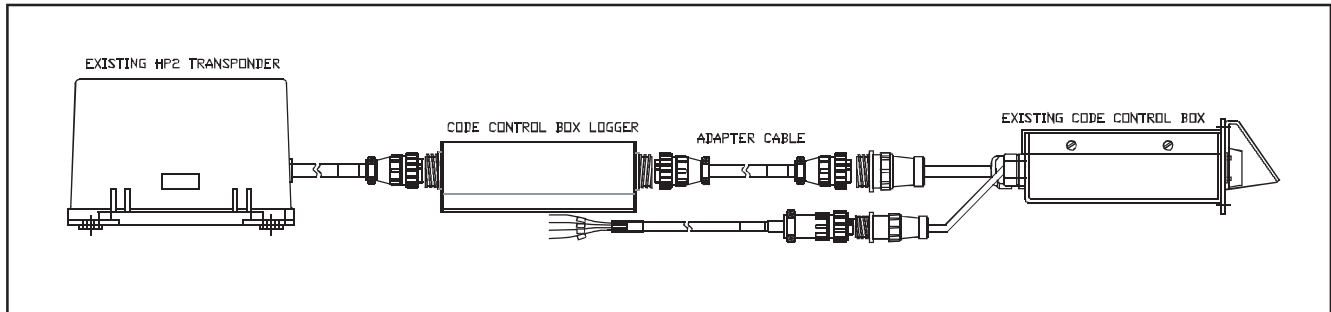
The Code Control Box Logger (CCBL) is part of a new generation of test equipment. The main function of the CCBL is resolving VETAG vehicle equipment error conditions by logging all Code Control Box events. The generated log files are easily retrieved by removing the SD-Card from the CCBL. For analyzing the logged data on the SD-Card a Windows-XP based reporting application is available. The CCBL also has a real time monitor interface available to debug VETAG vehicle problems during normal vehicle operation.

Basic Functionality

The CCBL is basically an embedded micro controller with an SD-Interface. Each event (data bit code sent from the VETAG Code Control Box to the HP2 Transponder) is recorded on the SD-Card. Each event has the data bits and date/time stamp. The CCBL will monitor all outputs from the Code Control Box as well as the VX signal coming from the HP2 Transponder. Logging can be triggered on changes of data or VX signal changes. Customer defined outputs or inputs are available for trigger or alarm functions.

Installation

The CCBL is installed in the vehicle between the VETAG Code Control Box and the HP2 Transponder. (See CCBL Connecting Diagram on page 2) A Code Control Box specific adapter cable is required to connect this CCBL. After the CCBL is connected, the real-time clock needs to be set. To set the clock, connect the PTU to the serial port and use the Windows-XP based CCBL logger application. Other functions of this application are: real time monitoring, setting logging time-of-day segments using the real-time clock.



CCBL Connecting Diagram

Specifications

| | |
|--------------------------|--|
| Parallel Interfaces | 19 Inputs and 19 Outputs |
| Serial Interface | For configuration functions such as setting date and time |
| SD-Card Interface | For customer supplied SD-Card |
| Customized Interface | 2 parallel Inputs or Outputs are available for special purposes such as alarms |
| Power Requirements | Power Consumption 24 VDC 20mA |
| | Input Voltage 24 VDC +/- 10% |
| 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 panel mounted |
| | Dimensions (WxHxD) 9.05" x 2.67" x 5.11" (230 x 68 x 130 mm) |
| | Weight 2.2 lb (1 kg) |

Ordering Information

| Part Number | Description |
|----------------|-------------------------|
| 6950 0000 5403 | Code Control Box Logger |