Progress Rail Inspection and Information Systems

The Progress Rail PowerView Locomotive Event Recorder is built on our legacy of railroad event recorders and innovative data acquisition products and solutions.

PowerView directly integrates into the EMD FIRE display as well as other locomotive systems, and contains an integrated, internal, field replaceable crash-hardened memory module.

The recorder has a full industrial switch and multiple Ethernet ports for flexible network connectivity, as well as digital inputs with the capability to add additional inputs for various requirements.

The included SATA drive bay with locking mechanism, when combined with industry-standard network IP cameras and a solid state drive, optionally expands PowerView to include full LDVR functionality.

Network flexibility enables multiple cameras as well as multiple camera types to be used, all in a single MCU 5 unit, saving critical space for other locomotive electronics.

It offers industry leading processing capability and secure, tamper-proof storage capacity, all in a compact design that meets industry shock and vibration specifications.

The recorder also focuses on ease of use. Integrated GPS for auto time synchronization, as well as a WebGUI interface allows easy access for configuration, system functions, and data access.

The Event Recorder comes with Progress Rail's next generation PowerView Event Playback software for downloading and analyzing secure Event Recorder data.

PowerView Event Recorder

Advanced event recorder with advanced solutions

Features

Ethernet
4x 10/100 Fast Ethernet ports, M12 connectors, A-coded 8-pin
1x GbE Ethernet port, M12 connector, X-coded 8-pin
Full TCP/IP

Serial
2x RS-422/485 Full / Half Duplex Synchronous (up to 19200 baud)/Asynchronous (up to 57600 baud)

Digital Inputs
4x 30-80 VDC Optically Isolated
States: ON, OFF, Toggle (user defined)
Configurable, Expandable via RS-485 port and additional input modules

Audio
Dual Balanced-line audio input

USB
USB download port with cover

Clock
Internal real-time clock w/battery back-up

GPS
GPS receiver with RP-TNC antenna connector

User Interface
WebGUI via browser (IE, Firefox)

Diagnostic and Health
Status Indicator LEDs on front panel
Detailed diagnostics via WebGUI

Progress Rail Event Playback Software

System Requirements
Windows 7 32/64 bit
Windows 8 32/64 bit (including touch)
Intel Core i3, 4 GB Ram

Data Storage

Internal Crash Hardened Memory Module
Meets 49 CFR Part 229
Multiple capacities available

SATA Drive Bay (SSD optional)
Accepts industry-standard 2.5 inch Solid State Drive (SSD)
Key Lock mechanism – auto shut down when unlocked

Options

LDVR Capability
IP Network Camera(s)
Multiple Quantity and types
Multiple Frame Rate
Multiple Resolutions
Supports multi-streaming
*Solid-state drive (SSD) required

Compression
Supports H264, MJPEG, and other industry codecs

Specifications

Dimensions
LSI 5 MCU Rack Mount
Width: 6.19 inches
Length: 11.5 inches
Height: 9.25 inches
Weight: 24 lbs

Relative Humidity
0% to 95% non-condensing

Operating Temperature
-40 C to +70 C

Storage Temperature
-50 C to +85 C

Power
Operating Voltage 40-90 VDC
Voltage Range 20-135 VDC
Current Draw 15 Watts Max
Reverse polarity protection
Overvoltage protection

Meets the following specifications:
FRA 49 CFR Part 229
AAR S-9101B
AAR S-9401 (5702)
IEEE 1482.1 compliant

Certified System™
ISO 9001

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