



## Hawk Event Recorder Advanced Wayside Knowledge System

The Progress Rail Advanced Wayside Knowledge System (HAWK) is a versatile and powerful event recorder that provides cost effective diagnostic and troubleshooting tools for applications ranging from the simplest flasher crossing to complex interlocking.

Extremely capable as a stand-alone event recorder and analyzer, the HAWK offers extensive options for data collection, networking and interfacing to other wayside equipment.

The HAWK employs a base unit networked with expansion modules via RS485 to scale to larger I/O intensive applications. As more I/O is required, additional expansion modules are simply added to the local HAWK network.

The HAWK features a simple user interface that allows easy navigation through menus and fast access to stored data and system functions. This user interface can be accessed using the built-in display and keypad or remotely through the communication options.

Through the integration of HAWK with OnSite, railroad operations can be simplified. Connecting HAWKs in the field to OnSite enables all crossing and interlocked locations to be monitored from a central location.

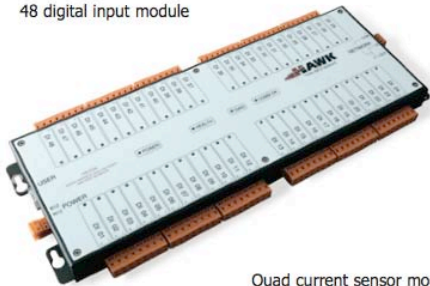




## HAWK Module Network

The HAWK intelligent module network allows virtually limitless expansion of the number of I/O signals monitored. Each module is a powerful subsystem that performs all acquisition tasks locally, handling off processed events to the HAWK main recorder unit. The expanding list of HAWK modules includes the following:

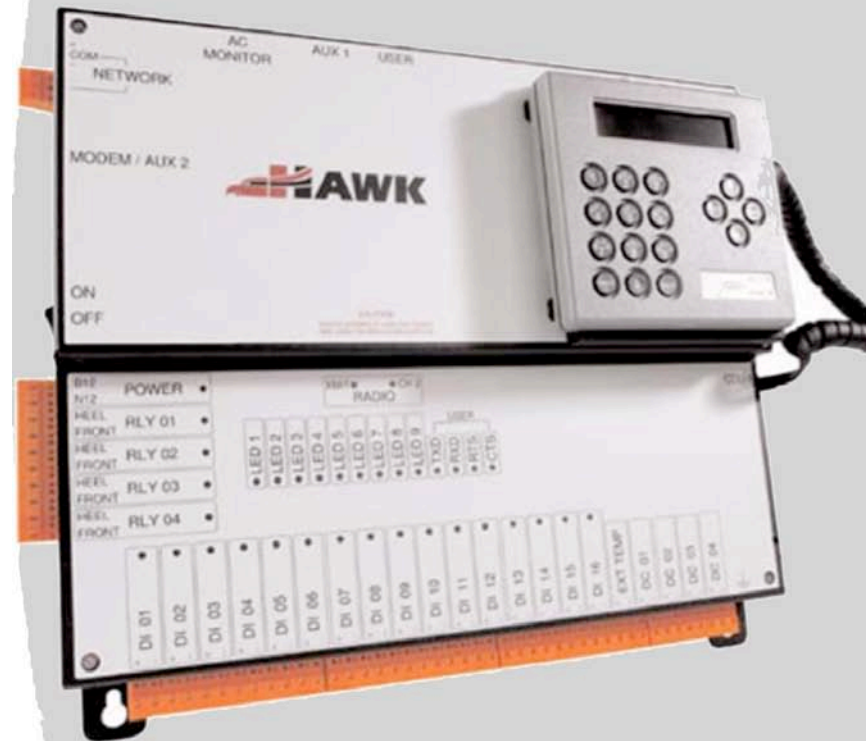
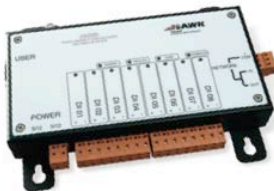
48 digital input module



Quad current sensor module



8 digital input module





## OnSite

OnSite is designed to work with the HAWK event recorder. As the HAWK monitors the status of railroad equipment in the field, this information can be sent to OnSite using any one of several communications options. Once that data is inside OnSite, personnel can prioritize field maintenance from a central location using the simple web user interface. All events are stored on the OnSite database to track the history of the field locations.

## Specifications

### Communications Hardware

- RS-232 serial module
- Internal modem module
- Ethernet module

### Digital Inputs

- 0-220 V (AC/DC)
- States: ON, OFF, Toggle (user defined)

### Battery Monitor Inputs

- 0-50 VDC
- Resolution: 0.1V
- GFD: 10K ohms, 6 to 18 volt DC

### Relay Outputs

- Contacts: FRONT/HEEL
- 0-220 V (AC/DC)
- 8 A max

### Power

8 to 30 VDC @ 3 A maximum load

### Operating Temperature

- Minimum: -40 F (-40 C)
- Maximum: +160 F (+70 C)

### Relative Humidity

0% to 95%, non-condensing

### Storage

Up to 295,000 events

### Dimensions

- Height: 14.8 in (37.6 cm)
- Width: 15.4 in (39.1 cm)
- Depth: 3 in (7.6 cm)

### Weight

6 pounds (2.72 kg)

