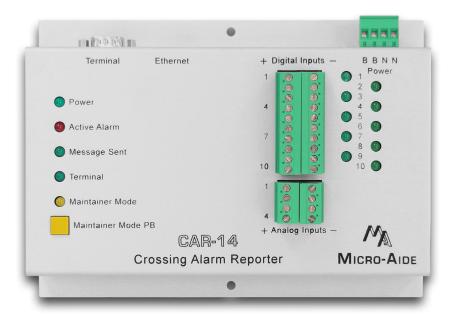
MICRO-AIDE



CAR-14

CROSSING ALARM REPORTER



FEATURES & CAPABILITIES

- Automatically detects and reports numerous crossing failures
- ▶ Reports alarms to a server via a VPN (requires external cellular modem) or LAN
- ▶ 20 different alarms can be defined to report real-time crossing status
- Message forms include state of XR, gates, AC power and battery voltages
- Automatic IP and server name resolution via DHCP and DNS
- Uses SNTP-Unicast method to provide accurate time stamping
- CAR-24 Companion product to Micro-Aide's
- ▶ 10 Digital and 4 Analog Inputs
- ▶ 8 programmable Virtual Inputs
- ► Compact, portable size

SPECIFICATIONS

Physical

Size

L: 8.2" H: 5.9" D: 2.6" Weight: 1.3 lb.

Operating Environment Temperature: -40 °C to 72 °C Humidity: 0 to 95%, non-condensing

Mounting

Shelf or backboard

Construction

Fully enclosed, anodized aluminum with externally accessible LEDs and connectors

All components mounted on conformal coated,

internal PCB

Power Voltage

Range: 9 to 36 Vdc Consumption Maximum: 2W

Isolation

Power Terminals, Digital and Analog Inputs,

Ethernet Port

Minimum: 3800 Vdc to chassis and any terminal

Alarms

Quantity: 20 total, user-defined

Types: Set, Cleared and periodic Health Check

User-assigned inputs, input states and time dura-

tions validate establish Alarm criteria

Operating Modes

Automatic: messages sent via VPN or LAN using

DNS or fixed IP Addressing

Maintainer Mode: disables Alarm transmission while crossing is being tested or repaired

Inputs

Types

Digital: 10, all opto-isolated Analog: 4 total, voltage only Virtual: 8, user assigned Input Impedances

Digital: minimum 10 KOhms

Analog: minimum 10 MOhms

Range

Digital Input-On: 9 to 36 Vdc Digital Input-Off: 0 to 2 Vdc

Analog Voltage: 1 scale, 0 to +51.1 Vdc

Validation Times

Digital: .001 to 32.767 seconds

Analog: as defined by Alarm Configuration Table,

0 to 99,999 seconds

Analog Inputs

Typical Accuracy: ±.15 Vdc

High and Low Limits: 0 to 51.1 Vdc in multiples

of .1 Vdc

Temperature Sensing

Usage: logs abnormal internal temperatures High and Low Limits: -67°F to 257°F

Ports

RS-232

Quantity: 1, for use with a PC, set for ANSI termi-

nal emulation

Baud Rates: 300 to 115,200

Bit Format: 8-N-1

Ethernet

Type: 10/100 Base-T, to cell modem or LAN

Protocols: HTTP-Get, TCP/IP, Telnet, SNTP-

Unicast

Ports (continued)

User interface: provides remote or local access via TCP/IP connection

Settings: user assignable IP Address, port, sub-net mask, dual IP Addresses for time server

Indicators and Controls System Status LEDs (5)

Power, Message Sent, Terminal: green

Alarm: red, illuminates when Alarm is active

Maintainer Mode: yellow Input Status LEDs (10)

Digital Inputs: green, illuminates when input is on

Maintainer Mode Pushbutton

Controls Maintainer and Remote Port Modes

Memory

Setup Database is non-volatile with loss of power

Internal Clock

Accuracy

Typical: ±8 seconds per month (3ppm) when not

synchronized

Volatility: maintains accuracy for minimum of

30 days with loss of power

Sync

SNTP-Unicast: via primary or secondary time serv-

ers, once per day at 00:05:00

Operation

Time Zones: selectable from 7 different North

American settings

Daylight Saving Time: enable or disable automatic

adjustment

Leap Year: automatically adjusted

MICRO-AIDE reserves the right to make changes, at its sole discretion, to any specification listed

herein.

