GCS-2 AND GCS-6 SPECIFICATIONS

Physical

GCS-2

Length: 7.1”

Width: 5.8”

Depth: 1.5”

Weight: 17 oz.

GCS-6

Length: 9.6”

Width: 6.4”

Depth: 2.0”

Weight: 26 oz.

Environmental

Storage

Temperature: -50 °C to 85 °C

Humidity: 0 % to 95 % non-condensing

Operating

Temperature: -40 °C to 72 °C

Humidity: 0 % to 95 % non-condensing

Mounting

Backboard, shelf or desktop

Construction

Housing

Fully enclosed, anodized aluminum

Externally accessible keypad, LEDs and connectors

Electrical

All components mounted on conformal coated, internal PCBs

Power

Voltage

Range: 10 to 36 Vdc

Consumption

Maximum: 1.5 W maximum (with Ethernet Port option)

Isolation

Power

Minimum: 3800 Vdc from B and N terminals to chassis and any terminal

Chassis

Minimum: 3800 Vdc from chassis to power and any terminal

Operating Modes

GPS with ASCII Messaging

Internal real-time clock is synced to GPS source

Time and date information is output to Device Ports

SNTP Time Server

Internal real-time clock is synced to GPS source

Time/date information is output to Device Ports and LAN-based devices using SNTP-Unicast and/or SNTP-Multicast (requires Ethernet option)

SNTP Time Client

Internal real-time clock is synced to Time Server using SNTP-Unicast and/or SNTP-Multicast (requires Ethernet option)

Time/date information is output to Device Ports

Device Port Access

Allows user access to device’s serial port via GCS Terminal Port or Ethernet Port (requires Ethernet option)

GCS becomes data transparent

Capacities

Target Devices

Via RS-232: 2 with GCS-2, 6 with GCS-6

Via SNTP: unlimited (requires Ethernet option)

Alarm Output

Quantity: 1

Capacities (continued)

Liquid Crystal Display

Characters: 40 total on 2 lines

Viewing Area: 3.2” by .7”

Front Panel Keypad

Quantity: 5 Softkeys

Internal Clock

Accuracy

Typical: ±8 seconds per month (3 ppm), free running when not GPS or SNTP synchronized

Sync Control

Via GPS Receiver or SNTP using Multicast (requires Ethernet option)

Operation

Full calendar, auto-adjusted for leap year

Enable or disable of automatic Daylight Saving Time adjustment (conforms with requirements of Energy Policy Act of 2005 made effective 2007)

Non-volatile for minimum of 30 days with loss of power

Target Device Control

Compatible Devices

All MICRO-AIDE CWR, Model 24D, 48D, 240D and 240MS Event Recorders

All MICRO-AIDE Data Loggers and Portable Speed Monitor

Electrocode 4, Electrocode 5, HCA-1, HXP-3, Microlok II, VHLC

Time/Date Setting

Once every hour, 12 hours or 24 hours, user assigned

Access Via GCS

Normally limited to time/date setting only

Device Port Access Mode allows data transparent access to device’s serial port

GPS Antenna

Size: Dia 1.8" H .6" (not including mounting screw)

Weight: 2 oz. (less cable)

Operating Temp: -40 °C to 85 °C

Mounting: bulkhead mountable to surface less than 3/8" thick

Location: unobstructed skyward orientation, for use outdoors

Ports

Device Ports

Quantity: 2 with GCS-2, 6 with GCS-6

Baud Rates: 300 to 115,200

Configuration: DCE or DTE

Bit Format: 8-N-1

Terminal Port

Quantity: 1, if Device Port 1 is enabled as Terminal Port

Baud Rates: 300 to 115,200

Configuration: always DCE

Bit Format: 8-N-1

Alarm Port

Type: opto-output, normally open, + and - terminals

Ratings: limit 15 mAdc, passive load only

GPS Receiver

Used to provide precise, real-time clock control

Provides latitude and longitude coordinates

Connects to GPS antenna

Ports (continued)

Ethernet (optional)

Type: 10/100 Base-T

Speed: 100 Mbps

Protocol: Telnet, SNTP

LED Indicators: green (link established), yellow (data activity)

Provides remote or local access using Telnet connections

User-assignable IP Address, user port, subnet mask

Connectors

Power

Detachable, tension clamp, 4-position, 12 to 22 AWG

Dual B and N terminals

Alarm Output

Detachable, tension clamp, 2-position, 12 to 22 AWG

Device and Terminal Ports

DE-9 male

GPS Receiver

MCX female

Ethernet Port (optional)

RJ-48 female

Indicators

LCD Panel

Includes LED back lighting for enhanced visibility

Displays GPS signal lock and numerous command menus for configuring GCS

GPS/Alarm

Combination green/red LED

Flashes green when microprocessor is receiving GPS data

Illuminates red when Alarm Output is active

Device Ports

Green LED, one per port, flashes with port activity

Event Log

Usage

Logs status entry for every Device Port sync attempt

Volatility

Non-volatile, retained if power is lost

Size

500 entries, new data overwrites oldest data

Access

Via Terminal Port only and front panel

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

PERIPHERAL CABLES

Every GCS-2 and GCS-6 is shipped with two or six of the following cable, respectively.

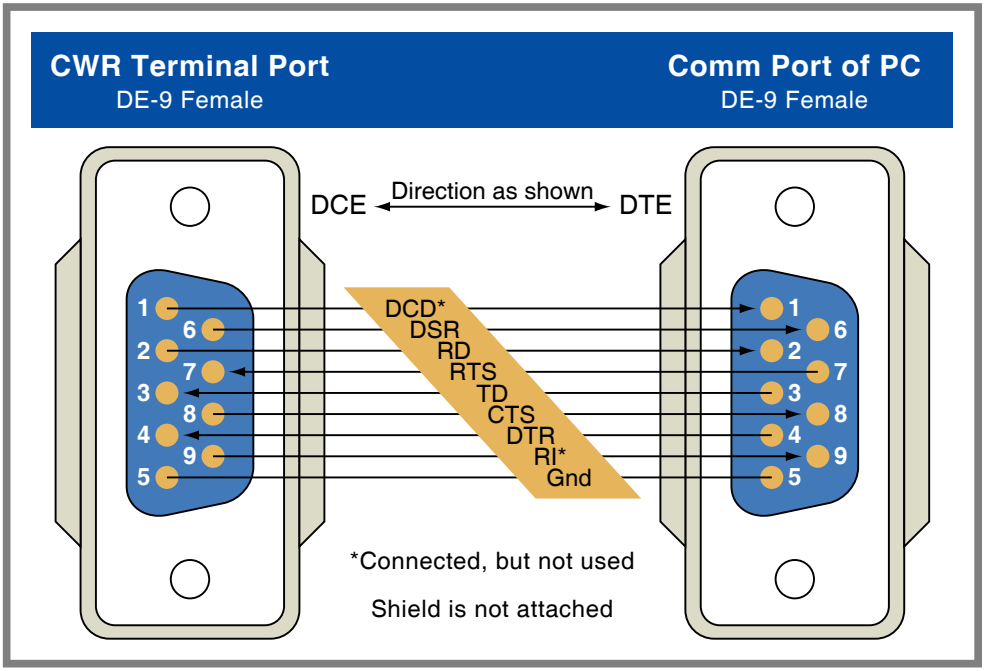

Figure 14: Terminal and Device Port Cable

The cable illustrated in Figure 15 on page 78 is required when a Microlok II is connected to a Device Port. This cable is available from MICRO-AIDE upon request.

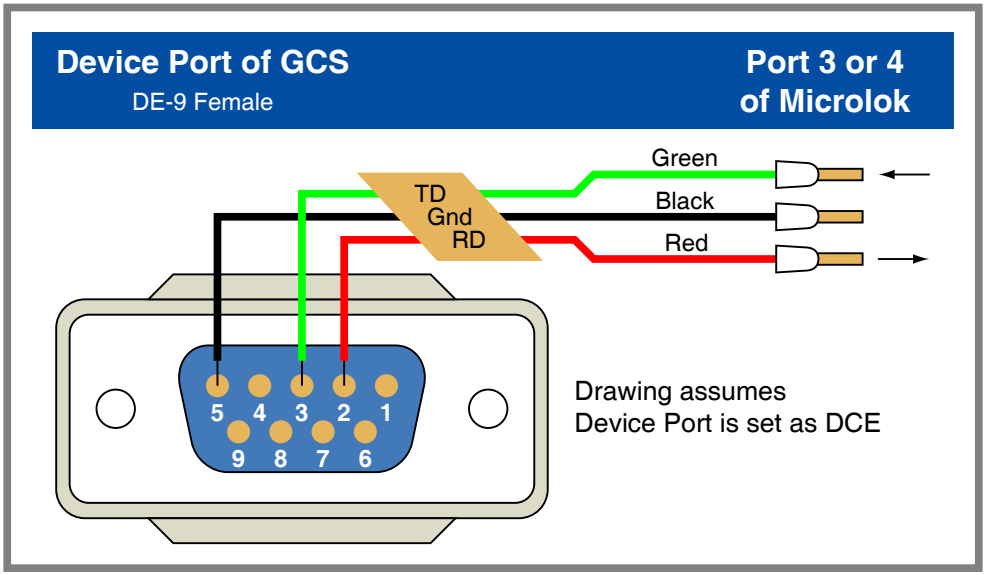

Figure 15: Device Port Cable for Microlok II

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