

Would you like to add state-of-the-art Event Recording capabilities to your



Tel: 626-915-5502 685 Arrow Grand Circle

Physical

Size (without mounting brackets) L: 9.5" H: 7.2" D: 2.6

Weiaht

25lb

Operating Environment

Temperature: -40 °C to 72 °C

Humidity: 0 to 95%, non-condensing

Mounting

Shelf or backboard, includes mounting brackets

Construction

Fully enclosed, anodized aluminum with externally accessible keypad, LEDs and connectors All components mounted on conformal coated,

internal PCBs

Power

Voltage Range: 9 to 36 Vdc

Consumption

Maximum: 3.5W (with GPS Receiver, Ethernet and Modem options)

Isolation

Power Terminals, Analog Inputs, USB Ports, **GPS Rcvr and Ethernet Ports** Minimum: 3800 Vdc to chassis and any terminal

Internal Modem (optional) Designed to meet FCC part 68 standards

Capacities

Inputs Digital: 999 as available from Siemens S7-300

Analog: 4 total, voltage or current (optional)

Virtual: 8, user assigned

Timer: 16. user assigned

Outputs

Relay: 1, form C

Event Storage

284,785 records, expandable to 1,182,769 records Liquid Crystal Display

Characters: 80 total on 4 lines

Viewing Area: 2.8" by .8"

Front Panel Keypad Quantity: 20 keys

Inputs

Input Impedance Analog: minimum 10 MOhms

Range

Analog DC Voltage: 3 scales, ±25.5, +51.1, ±255 Analog AC Voltage: 2 scales, 25.5, 255

Event Validation Times

Digital: not applicable, Siemens S7-300 transmits 999 bit states 3 times per second using 3964R protocol

Analog: fast and slow filter settings

Analog Limit Values Voltage High and Low limits: in multiples of .1 V or 1 V

Internal Temperature High and Low Limits: -67 °F to 257 °F

Analog Input Accuracy

Typical Voltage: ±.15V or ±1.5V Typical Current: ±.2A

Virtual Inputs

Any logical association shared by 1 to 4 variables (i.e., Digital, Analog, Timer or Virtual Inputs)

Assigned by defining the state of the Virtual Input for each combination of variable states

Creates standard Event Records

Relay can be controlled by each Virtual Input

Modem (optional), used to dial out Event Records

Timer Inputs

Programming

Any input can be assigned as a trigger or terminating source

Limit Values

High and Low limits: in multiples of .1 seconds Range: 0.0 to 999.9 seconds

Reporting

Measured Time is reported in each Timer Input Event Record

Violation of Limit Values are also reported

Memory

Type Non-volatile, Event Records and Setup Database are stored in flash memory chip, newest data over-

writes oldest data, 129th day over-writes first day Storage Longevity

Infinite with power off, rated for 100,000 write operations

Ports

RS-232 Terminal Port Quantity: 1, for use with a PC Baud Rates: 300 to 115,200

Vital-Processor Port

Quantity: 1, connects to CP 340 of Siemens \$7-300

Bit messaging: Siemens S7-300 transmits 999 bit states 3 times per second

Protocol: Siemens 3964R

Baud Rates: 300 to 115,200; default is 9600

USB Host

Compatible with FAT-32 flash drives, can create a text file of Event Record data from any time span

USB Device

Eliminates need for serial comm port, data transfer rates of 4.71 Mbps

Ethernet (optional) Type: 10/100 Base-T

Protocols: TCP/IP, Telnet, SNTP-Unicast and -Multicast

Usage: Provides remote or local access via TCP/IP Data transfer rates of 4.70 Mbps

User assignable IP Address, port, sub-net mask, Unicast IP Address

GPS Receiver (optional) Used to provide precise, real-time clock control, latitude and longitude coordinates

Modem (optional)

Provides remote access, auto-answer

Connectors

Power, Relay and Analog Inputs Detachable, tension clamp, 12 to 22 AWG

Terminal and Vital-Processor Ports DE-9 male, configured as DCE

USB Host Port USB Type A female USB Device Port

USB Type B female

Telephone Line RJ-11 female

Connectors (continued)

GPS Receiver (optional) MCX female

Ethernet Port (optional) **RJ-45** female

Indicators

LCD Panel

Includes LED back lighting for enhanced visibility Displays numerous command menus for configur-

ing the Data Logger and retrieving data

LEDs (3) Power: green

Terminal: green, flashes with send/rcv data

LCD Contrast Adjust

Internal Clock

Accuracy

Resolution

per second

Operation

Time adjustment

Receiver options

GPS Receiver (optional)

Weight: 2 oz. (less cable)

Password Protection

Administrative Level

ing, limit 8 characters

front panel, limit 8 digits

Restricted Level

Sync

PCB

Antenna

3/8" thick

outdoors

Passcode

herein.

Modem: green, flashes with send/rcv data and ring

Controls

Keypad

Located on front panel, below LCD

Keys: 0-9, Browse, Alpha, Setup, Esc, Enter, Save/., left, right, up, down/-

Single-turn pot., accessible from front panel

Typical: ±8 seconds per month (3 ppm)

Siemens S7-300 transmits 999 bit states 3 times

SNTP-Unicast and -Multicast (with Ethernet option)

Full calendar, auto-adjusted for leap year, non-

Enable or disable of automatic Daylight Saving

Non-drift, precise control with SNTP and/or GPS

Plugs into mating connector inside Data Logger

Operating Temperature: -40 °C to 85 °C

Access to all functions, limit 8 characters

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

Mounting: bulkhead mountable to surface less than

Location: unobstructed skyward orientation, for use

Access to Event Record and Setup Database view-

Provides limited alterations to Setup Database via

MICRO-AIDE reserves the right to make changes,

at its sole discretion, to any specification listed

.1 seconds for all Event Records

GPS (with GPS Receiver option)

volatile for 30 days with loss of power

Includes PCB and external antenna



