J P 9 ...people and technology 0 Mounts directly to equipment or in enclosure Fully programmable, and networkable device with 2 digital inputs 0 5 YEAR WARRANTY

you can rely on™

BACNET® LISTED DEVICE

DEAL FOR ROUTING LAN/WAN COMMUNICATIONS TO TWISTED PAIR MS/TP NETWORKS

Easy to wire 45 degree removable connectors

Data acquistion and data storage onboard

ROBUST POWDER-COATED STEEL PACKAGE





The Reliable Controls® ETHER-Link™ portal provides 10baseT Ethernet communication within the Reliable Controls® MACH-System™, and ships with the Reliable Controls® industry best 5 year warranty.



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The Reliable Controls® ETHER-Link™ portal is a powerful and economical BACnet® listed device that delivers highspeed 10 Mbps Ethernet connectivity to any Reliable Controls® MACH-System. The ETHER-Link™ portal provides a 10BaseT connection to an Ethernet backbone, a 2 wire EIA-485 connection to other controllers in the Reliable Controls® MACH-System, and an EIA-232 connection to service PC or Modem communications. The ETHER-Link™ portal ships standard with robust powder-coated steel packaging and removable connectors.

TECHNICAL SPECIFICATION

Processor

- 40 MHz, high-performance
- 16-bit embedded microcontroller

Memory

- 512k NV RAM
- 512k Flash EEPROM operating system firmware and controller configurations

Supply Voltages

24 VAC/VDC, 5 VA

Communications

- IEEE 802.3 Ethernet 10BaseT
- EIA-485 @ 76.8 kbps max.
- EIA-232 @ 57.6 kbps max.
 PC or Modem

Inputs

- 2 digital 40 Hz pulse counting (supports flow meters)
- 24 VAC over voltage protection

Real-Time Clock

±1 second per day

Memory/RTC Backup

 1 year by litihium battery (offline)

Dimensions

- 15.7 cm L x 10.8 cm W x 2.5 cm H
- (6.2" L x 4.3" W x 1.0" H)

Mounting

 #8 clearance holes on 14.6 cm L x 9.4 cm W (9.7" L x 3.2" W)

Weight

• 0.25 kg (0.6 lb.)

Ambient Limits

- Operating: 0 °C to 40 °C (32 °F to 104 °F)
- Shipping: -40 °C to 60 °C) (-40 °F to 140 °F)
- Humidity: 10% to 90%
 RH non-condensing

FEATURES

Protocol

- BACnet®
 - B/IP (Ethernet)
 - ISO 8802-3
 - MS/TP (EIA-485)
 - PTP (EIA-232)
- Reliable Controls®
 - Ethernet (IP)
 - Network (EIA-485/Token Bus)
- PC & Modem (EIA-232)
- SNMP

128 Control-BASIC™ Programs

- User programmable control strategy in a readable, BASIC-like language
- 2500 bytes per program

2 Inputs

Digital or pulse

256 Variables

 Selectable standard and custom ranges, as well as fixed program-driven values

64 PID Loops

• Standard P, PI, or PID controllers for closed loop control

96 Trend Logs

Each trend log stores 255
 samples of 6 points at programmable
 time intervals

128 Runtime Logs

- Totals the on time and records the on/off times of a digital point
- Holds 200 samples

64 System Groups

- Allows related points to be grouped on to one display
- 160 points/group

32 Weekly Schedules

 4 on/off times for each weekday and 2 override days

8 Annual Schedules

 Days of the year designated as holidays

48 Variable Arrays

 Up to 128 elements in a one-dimensional array

128 User Passwords

- Protects access to system
- Each user is assigned a user name and an access level

5 Custom Tables

 For creating custom scaling functions

16 Custom Units

- 8 analog engineering units
- 8 digital engineering units

127 Network In Points

127 Network Out Points

Real Time Clock

Warranty5 years

Certification

BTL Listed (B-BC)

• ISO 16484-5

ORDERING

EL

ETHER-Link[™] portal

APPLICATION DIAGRAM



