

JNIOR – 300 Series



JNIOR – Model 310

JNIOR - A Network I/O Resource

The **JNIOR** family of network I/O modules brings cost-effective and seamless connectivity and control, with Internet and IT friendly capabilities typically found in larger devices, into a small, “junior-sized” box.

All **JNIOR** Series 300 modules contain a built-in controller, an Ethernet port, a mix of I/O signals, built-in web pages for configuration and control, on-board programmability, ability to communicate simultaneously to multiple devices, communication drivers for integrating with remote applications, IT tools, wired or wireless connection capabilities, remote firmware upgrades, logging capabilities, sensor port, rugged packaging and industry certification.

SPECIFICATIONS – Model 310

■ General

The **JNIOR** Model 310 contains eight (8) digital inputs and eight (8) relay outputs. The inputs provide the ability to sense the on/off, up/down, high/low, etc. status of equipment, as well as, act as a counter recording the change in status of the input signal. The outputs provide the ability to turn on/off, open/close, etc. devices.

Power

8 – 30 Volts AC/DC, 3W Max.

Memory

2 MB RAM, Battery Backed
2 MB Flash, User Accessible

Digital Inputs

8 Optically Isolated Inputs
5 – 30 V AC/DC, 30mA Max.
1.1Kohm Input Resistance
500us Setup Time Min.
All can act as counters up to 2KHz
All can be latched (man/auto reset)

Relay Outputs

8 SPST-Normally Open Outputs
1A @ 24VDC

Communications (Included)

TCP/IP, Modbus, Web page (Applets)
API (DLL), OPC Server, LabView VI

■ Features

- Modbus/TCP communications and other Ethernet/IP protocols
- Standard Modbus Commands plus BLOCK command (controls 1 – 8 outputs simultaneously), PULSE command (controls an output to momentarily turn on or off for as short as 1 ms), CONFIGURATION command (used to configure unit)
- Network Time Protocol (NTP) via user-defined server
- E-mail capability for change in I/O status and user-configurable alarm points with attachments
- Logging of system activities (boot-up, connections, etc.)
- Logging of I/O actions with time and date stamp
- Command line diagnostic and monitor package via Telnet
- TCP/IP data packets can report I/O status change by exception or on user-defined interval
- Auxiliary serial port capable of operating as RS232 or RS485
- Serial to Ethernet converter
- Sensor port utilizes temperature or humidity sensors that are automatically recognized
- Easily configured via a standard Web browser

■ Environmental

Physical

Approximate Size: 6 in. x 4 in. x 1.1 in.
Weight: 11 Ounces (with connectors)
Mounting: 0.2 in. on 6.5 in. centers
Case: Flame Retardant ABS Plastic

Environment

Operating Temperature
-25°C to 70°C (-13°F to 158°F)
Storage Temperature
-40°C to 85°C (-40°F to 185°F)
Humidity
5 to 95% Non-Condensing

Wire Connectors

2 piece screw terminal blocks

Other Connections

- 10/100 BASE T Ethernet Port (RJ45 Modular Jack) with auto negotiate and full/half duplex
- RS232 Port (DB9 female), Async, 110 to 115,000 Baud
- RS232/RS485 Auxiliary Serial Port (RS485 – 2 or 4 wire)
- Sensor Port (1-Wire®)

Approvals (Pending)

FCC Class A Part 15 Compliant
UL Listed (60950), CE

Warranty – 2 Years



Visit INTEG's *Connectivity Solutions* website at
www.integcs.com