INDUSTRIAL CONTROL COMMUNICATIONS, INC.

Mirius Multi-Interface Serial Gateway

Innovative, Versatile, and Easily-Integrated Serial Gateway

The Mirius is a highly flexible multiprotocol RS-485 to multi-interface serial communications gateway. It allows seamless bridging between various popular industrial and commercial communication networks. The Mirius supports several standard serial communication interfaces and can also directly connect physical I/O, such as sensor data, to communication networks.

The Mirius incorporates a variety of versatile, leading-edge technology, such as:

- One dedicated RS-485 port and one multi-interface port (RS-485, RS-232, UART, and I/O)
- Galvanic isolation separates both serial ports and power supply into 3 independent power domains
- Accepts 9-24 V AC/DC power and can be powered via USB (for configuration at a workstation)
- Two dedicated universal I/O ports, two shared general-purpose I/O ports
- Analog input, pulse (analog) output, digital input, digital output, pulse input
- Pluggable style terminal blocks for easy installation
- USB connectivity with virtual COM port support (serial sniffer, USB communications)
- Dynamic run-time parameters allow quick configuration of network settings via communications or USB
- User-configurable network timeout behaviors
- Persistent user parameters for calibration data, serial numbers, device IDs, etc.
- PLC-style logical, arithmetic, trigonometric and filtering database manipulation operations allow the construction of complex data conditioning functions
- DIN-rail mountable enclosure, panel/wall suspension elements included

Using the Windows®-based *ICC Configuration Studio*, OEMs and users can perform the following tasks:

- Configure protocols, network characteristics, and client/server object definitions
- Graphically interact with the internal database in real-time
- Automatically update device firmware
- Define autonomous internal elements such as database logic and object failsafe values
- Capture, display and save serial network traffic with microsecond-precision timestamps

Using the lightweight *ICC Network Parameter Utility*, installers and integrators can perform the following tasks:

- Select RS-485 network communication options such as protocol, baud rate, parity, address, and more
- Update device firmware
- Easily apply configuration updates in the field using device update files

Supported protocols include:

- Modbus RTU (master, slave & sniffer)
- BACnet MS/TP (client & server)
- Johnson Controls Metasys® N2 (master & slave)
- Toshiba ASD protocol (master)
- Sullair Supervisor protocol (master)

- DMX-512 (master & slave)
- M-Bus (master)
- Siemens FLN (master & slave)
- Generic/ASCII Serial (master & slave)
- For a complete list of supported drivers, refer to the "*Mirius Supported Drivers and I/O List*"

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For more information about this and other industrial & commercial communication interface products, visit us online at http://www.iccdesigns.com.

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