c(UL)us Class 1, Division 2, Groups A, B, C, and D Hazardous Locations.

CE

ROCKWELL AUTOMATION
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Fisher ROC Communication Module

3100-ROC

The 3100 Fisher ROC Communication Module is a single slot solution for the Rockwell Automation PLC platform. By providing configurable access to both ports, this product provides previously unavailable functionality and versatility. All module setup and operating controls are performed over the backplane through simple ladder logic and data table configuration. The only software necessary is a standard ladder-programming package.

Fisher ROC Communication Module
3100-ROC

The 3100-ROC (SLC) Fisher ROC Communication Module is a single slot solution for the Rockwell Automation 1746 platforms. By providing configurable access to both ports, this product provides previously unavailable functionality and versatility.

How to Contact Us: Sales and Support

All ProSoft Technology products are backed with unlimited technical support. Contact our worldwide Technical Support team directly by phone or email:

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Features and Benefits

- Single slot in-rack SLC
- Full backplane support
- M0/M1 in SLC
- Uses standard A-B pgm software

Functional Specifications

- Two fully configurable serial ports, each capable of supporting Fisher ROC Master. Available configurations include:

Port Configurations	Port 1	Port 2
Master-Master	Master	Master

- Support for the storage and transfer of up to 4000 registers to the PLC /SLC data tables
- Support movement of binary, integer, ASCII, and floating point data types
- Memory mapping is completely user definable through data table configuration
- RS-232C handshaking for SCADA radio/modem applications
- RS-422/RS-485 compatible for Multi-drop applications with up to 32 slaves per port
- Satellite and Packet Radio support with a configurable Inter-character Timeout available per port
- Software configuration (From processor ladder logic)
  - Slave Addr: 0 to 255
  - Parity: None, odd, or even,
  - Stop Bit: 1 or 2
  - Baud Rate: 300 TO 38,400
  - RTS to TxD: 0 to 65535 ms, 1 ms resolution
  - RTS Off: 0 to 65535 ms, 1 ms resolution
  - Timeout: 0 to 65535 ms, 1 ms resolution
- Response time

- The Fisher ROC Master protocol driver is written in Assembly and in a compiled higher level language. As such, the interrupt capabilities of the hardware are fully utilized to minimize delays, and to optimize the product's performance

Fisher ROC Master Specifications

- Protocol modes:
  - o RTU mode with CRC-16 error checking

- Supported Fisher ROC Function codes:
  - o 8 Set New Time and Date
  - o 10 Send Data From Configurable Opcode Tables
  - o 24 Store and Forward
  - o 120 Send Pointers for Alarm, Event, and History Logs
  - o 128 Send Archived Daily and Hourly Data for the Currently Selected Day
  - o and Month
  - o 130 Send Archived Hourly and Daily Data for Specified History Point
  - o Starting at Specified History Pointer
  - o 180 Send Specified Parameters
  - o 181 Set Specified Parameters

- Supports up to 100 Command List entries, each individually configurable with the following parameters:
  - o Port/Mode Selection
  - o Slave Unit
  - o Slave Group
  - o Opcode
  - o Number of values to transfer
  - o Source data address
  - o Destination data address
  - o Swap type
  - o Polling Time

- Command Control Mode
- Allows individual command execution control to be done in ladder logic enabling a list of commands to be executed based on events in the PLC/SLC
- Individual command 'Done' and 'Error' bits available
- Individual Command Error Statue codes returned to the ladder processor

Hardware Specifications

Specification	Description
Backplane current load	3100 module for PLC
	0.65 A
Operating temperature	0 to 60°C (32 to 140°F)
Storage temperature	–40 to 85°C (–40 to 185°F)
Relative humidity	5 to 95% (non-condensing)

Specification	Description
LED Indicators	Module status
	Backplane transfer status
	Serial port TX/RX activity LED
	Serial port error LED status
Application serial ports	DB-25F3100 module
	RS-232/422/485 jumper selectable
	RS-422/485 screw termination included (two per module)
	RS-232 hardware handshaking (RTS/CTS, DTR)
	500V optical isolation from backplane

Additional Products

ProSoft Technology offers a full complement of hardware and software solutions for a wide variety of industrial communication platforms.

Visit our web site at http://www.prosoft-technology.com for a complete list of products.

Ordering Information

To order this product, please use the following:

3100-ROC   Fisher ROC
                 Communication Module

To place an order, please contact your local ProSoft Technology distributor. For a list of ProSoft distributors near you, go to http://www.prosoft-technology.com

Distributors:
Place your order by email or fax to:

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