



 Class 1, Division 2,  
Groups A, B, C, and D  
Hazardous Locations.



## Foxboro/Systronics Minimote RTU Slave Communication Module

### 3150-SYS

*Applications using the Foxboro/Systronics slave module can be found in many industrial sectors and in the following applications:*

- Foreign device data concentrator
- Pipelines
- Offshore platforms
- Oil field lease

### 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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## DISCONTINUED

# Foxboro/Systronics Minimote RTU Slave Communication Module

### 3150-FOX

The inRAx Systronics slave 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. Support has been added to the product to support the report by exception capabilities associated with VSAT implementations of the protocol.

### Features and Benefits

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.

### Hands-Off Operation

After the SYS module has been setup for operation, the module provides transparent control and monitoring capabilities. The SYS module, integrated directly into the PLC/SLC rack, forms a tightly integrated and practical solution. After configuration, the module will perform all protocol related functions on a stand-alone basis.

The ProSoft module installs in any slot in a local rack.

### Functional Specifications

- Foxboro / Systronics Minimote RTU Protocol, with VSAT reporting support
- Full radio, modem and Multi-drop support
- Supports RS-232C, RS-422 and RS-485 interfaces
- Communication error codes and counters returned to ladder logic (Slave port)
- Configurable character delay to support VSAT packetizing delays
- Configuration via simple ladder logic
- Supports broadcast commands from Master
- Supports write commands from host in both direct or indirect modes
- Setpoint select and operate
- Control point continuous and momentary

## Supported file numbers

File	Description
14h	Analog Data
19h	Status Data
37h	Accumulator Data 32 bit
1Dh	Momentary Control Select
21h	Setpoint Select
23h	Execute Selected Control File
2Ch	Pulse Train Control File
30h	Multi-file Streaming Data Setup
3Fh	Multi-file Streaming Data
3Ch	VSAT Timer Setup
3Eh	20 msec Timer
41h	Analog Deviation Limits
44h	Accumulator Reset Commands
47h	32 bit Accumulator Current End of Batch
4Bh	Tank Levels

## Register addressing

Filetype	File #'s	Valid Addresses
16 bit registers	14h	0 to 61
16 bit binary	19h	0 to 123
32 bit acc EOBatch	47h	0 to 15
32 bit accumulator	37h	0 to 31
Tank Levels	4Bh	0 to 31
Momentary Control	1Dh	Bit:0 to 255 Card 0 to 15
Setpoint Select	21h	Reg:0 to 4095
Accumulator Reset	44h	1 to 2

## Communication parameters

Parameter	Value
Address	1 to 254 ( 127 is broadcast)
Parity	None, Odd, Even
Stop Bit	1 or 2
Baud rate	300 to 38.4K
RTS Delays	1 ms resolution on and off

## Hardware Specifications

Specification	Description
Backplane current load	3150 module for SLC 5V @ 0.15 A, 24 V @ 0.040 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% (w/o condensation)
LED indicators	Module Status, Backplane transfer status, Serial port TX/RX activity LED, Serial port error LED status

Specification	Description
Application Serial ports	DB-9M 3150 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.

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