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

CE

ROCKWELL AUTOMATION
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DISCONTINUED
MTS Level Plus Interface Communication Module

3100-MTS
The 3100 MTS Level Plus Interface Communication Module allows the user to easily communicate with up to 64 MTS Level Plus gauges. The module is a single slot solution for the Rockwell Automation PLC platforms (firmware solutions also available).

Features and Benefits

Port Configuration
Configuring the two ports independently allows for optimum flexibility. Using both ports as RS-485 Masters to MTS gauges, or one port as a RS-485 Master to a set of MTS gauges and the other as a Modbus Slave connected via modem to a SCADA host is one example of this flexibility. After configuration through the processor data table the module will perform all protocol related functions on a stand-alone basis, returning level and temperature information to the processor.

Easy Hardware Installation
The connection between the 3150-MTS and the MTS gauges is a direct one and needs no RS-232 to RS-485 converter. In order to connect the 3150-MTS product to the MTS digital gauges, plug the module into the Rockwell Automation rack and connect the RS-485 line from the MTS gauges to the module's port.

Installation, Set Up and Operation
The ProSoft module installs in any slot in a local or a remote rack. The product's capabilities are enabled and controlled with simple ladder logic and data table initialization. The module operates in any one of the following configurations

Mode	Port 1	Port 2
Master/Master	MTS Master	MTS Master
MTS Master	MTS Master	Modbus Slave

Functional Specifications
- Continuous polling sequence of up to 64 gauges, each fully configurable for port, gauge address, level resolution, and temperature resolution
- Support for the storage and transfer of up to 4000 registers to/from the PLC
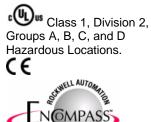- RS-485 interface in module (No converters needed)

MTS Level Plus Interface Communication Module
3100-MTS

The 3150-MTS module setup and operating control is performed through simple ladder logic and data table configuration. The only software necessary is a standard ladder-programming package.

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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- Communication and instrument error codes returned to ladder logic on a per command/slave basis
  - o Supported commands:
  - o 16: Output Level 1 and 2 at 0.1 inch resolution
  - o 17: Output Level 1 and 2 at 0.01 inch resolution
  - o 18: Output Level 1 and 2 at 0.001 inch resolution
  - o 31: Ave & Indiv RTD Temp at 1°F resolution
  - o 32: Ave & Indiv RTD Temp at 0.2°F resolution
  - o 33: Ave & Indiv RTD Temp at 0.02°F resolution

- The following Modbus features have been implemented:
  - o RTU mode (binary) with CRC-16
  - o ASCII mode with LRC error checking
  - o Broadcast commands
  - o 125 word reads and writes

- Function Codes Supported
  - o 1: Read output status
  - o 2: Read input status
  - o 3: Read multiple data registers
  - o 4: Read input registers
  - o 5: Force single coil (Write single bit)
  - o 6: Preset (Write) single data register
  - o 15: Force multiple coils (Write multiple bits)
  - o 16: Preset (Write) multiple data register

- User Configurable
  - o Address
  - o parity
  - o stop bits
  - o baud rate

- Full radio, modem and Multi-drop support
- Supports RS-232C, RS-422 and RS-485 interfaces

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.

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)
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