



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



MTS Level Plus Interface Communication Module 3150-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:

Asia Pacific

+603.7724.2080, asiapc@prosoft-technology.com
Languages spoken include: Chinese, Japanese, English

Europe – Middle East – Africa

+33 (0) 5.34.36.87.20, support.EMEA@prosoft-technology.com
Languages spoken include: French, English

North America

+1.661.716.5100, support@prosoft-technology.com
Languages spoken include: English, Spanish

Latin America (Sales only)

+1.281.298.9109, latinam@prosoft-technology.com
Languages spoken include: Spanish, English

Brasil

+55-11.5084.5178, eduardo@prosoft-technology.com
Languages spoken include: Portuguese, English

DISCONTINUED

MTS Level Plus Interface Communication Module

3150-MTS

The 3100-MTS product allows the user to easily communicate with up to 64 MTS Level Plus gauges. The 3100-MTS (PLC) Module is a single slot solution for the A-B 1771 platforms (firmware solutions also available). These products allow MTS Level Plus digital gauges and Level Plus Monitors to be interfaced directly to the Allen-Bradley environment.

Features and Benefits

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

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. Once configured 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 3100-MTS and the MTS gauges is a direct one and needs no RS-232 to RS-485 converter. In order to connect the 3100-MTS product to the MTS digital gauges, plug the module into the Allen-Bradley 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.

Functional Specifications

- Continuous polling sequence of up to 64 gauges, each fully configurable for port, gauge address, level resolution, and temperature resolution
- RS-485 interface in module (No converters needed)
- Communication and instrument error codes returned to ladder logic on a per command/slave basis
 - Supported commands
 - 16: output level 1 and 2 at 0.1 inch resolution
 - 17: output level 1 and 2 at 0.01 inch resolution
 - 18: output level 1 and 2 at 0.001 inch resolution
 - 31: ave & indiv RTD temp at 1°F resolution
 - 32: ave & indiv RTD temp at 0.2°F resolution
 - 33: ave & indiv RTD temp at 0.02°F resolution
- RTU mode (binary) with CRC-16
- ASCII mode with LRC error checking
- Broadcast commands
- 125 word reads and writes
- Function codes supported
 - 1: read output status
 - 2: read input status
 - 3: read multiple data registers
 - 4: read input registers
 - 5: force single coil (write single bit)
 - 6: preset (write) single data register
 - 15: force multiple coils (write multiple bits)
 - 16: preset (write) multiple data register
- User configurable: address, parity, stop bits, baud rate
- Full radio, modem and Multi-drop support
- Supports RS-232C, RS-422 and RS-485 interfaces
- Communication statistics returned to ladder logic, including error codes and communication counters

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
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.

Copyright © ProSoft Technology, Inc. 2000 - 2013. All Rights Reserved.
December 16, 2013