



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



Honeywell 7800 Communication Module 3100-CBM

The Honeywell 7800 Master module can be found in many industrial sectors, especially in manufacturing. Up to five systems can be interfaced with one Honeywell communication interface and a QS7850 GPI module. Each system must reside on its own control bus.

Up to 32 QS7850 GPI modules can reside on a single RS-485 bus, with each module having its own unique slave address. Both ports on the 3100/3150-CBM module can actively poll a network of QS7850 modules.

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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Honeywell 7800 Communication Module

3100-CBM

The ProSoft 3100-CBM Honeywell 7800 Series Master Module is designed to allow Rockwell Automation PLC platforms to interface with Honeywell 7800 Series Burner Management hardware devices.

The 3100-CBM module acts as a polling master over the Honeywell 7800 Series of burner management products. Through simple ladder logic and data table configuration, a PLC ladder application is able to access important operational data from the 7800 units for display in the data table. In addition, the ladder is able to write to points in the slave devices.

Features and Benefits

Simple to Use

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

Hands-Off Operation

After the CBM module has been setup for operation, the module is capable of accessing (read/write) the points in the burner management devices. The CBM module is integrated directly into the PLC rack, forming a tightly integrated and practical solution. After configuration, the module will perform all protocol related functions as commanded by the ladder logic program.

Installation, Set Up and Operation

The ProSoft module installs in any slot in a local rack (or a remote rack in the case of the 3100 module). The product's capabilities are enabled and controlled with simple ladder logic and data table initialization.

Functional Specifications

- Two fully configurable serial ports, each capable of supporting the CBM Master functionality using the ASCII mode of communications
- RS-485 connection from each port directly to Honeywell QS7850A Interface Modules
- Supports up to 32 Honeywell nodes per serial port
- Supports polling of rpa command accessible data using the integer data type
- Floating point values are scaled x 10 by module
- ASCII text strings are not supported

- Supports one-shot writes using to wpa/wpqa accessible data from ladder logic
- Up to 40 'device config files' are available for user configuration
 - Communication configuration (From processor ladder logic)
 - - Node addr8 to 255
 - - Baud rate300 TO 38,400
 - - Parity None (fixed)
 - - Stop bit1 (fixed)
 - - RTS to TxD50 ms (fixed)
 - - Timeout4 seconds (fixed)
 - - Mode ASCII (fixed)
- Supported CBM command codes:
 - - rpa Read point
 - - rpqa Read point qualified
 - - wpa Write point
 - - wpqa Write point qualified
- sn-Set address
- Error codes returned to the ladder processor along with a poll execute toggle bit.

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

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-CBM Honeywell 7800
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>

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