

## FACTORY NOTE

MODBUS OCM/OLC configuration instructions and connector pin-out designations are not yet included in the Allen-Bradley OCM/OLC User's Manual.

### Configuration Instructions

MODBUS networks may be configured for either full duplex or half duplex communication. Full duplex enables 2 devices to communicate point-to-point and requires no flow control signals (handshaking) for network arbitration. Half duplex enables 2 or more devices to communicate on a multi-drop network configuration using flow control signals to arbitrate network access.

All OCMs/OLCs must be configured for either full duplex or half duplex operation by the following switch settings:

	Switch 5 <sup>(1)</sup> Position 6	Switch 2 <sup>(2)</sup> Position 6
OCM-MOD Full Duplex	ON	Not Applicable
OCM-MOD Half Duplex	OFF <sup>(3)</sup>	Not Applicable
OLC-MOD Full Duplex	Not Applicable	ON
OLC-MOD Half Duplex	Not Applicable	OFF <sup>(3)</sup>

### MODBUS OCM/OLC Half/Full-Duplex Configuration Switch Settings

- (1) See Figure 11 for Designated Switch Locations
- (2) See Figure 12 for Designated Switch Locations
- (3) Factory Default Switch Settings (All other switch positions on OCM-MOD Switch 5 and OLC-MOD Switch 2 must remain in the OFF position.)

## MODBUS OCM/OLC Connector

Connector Type:

OCM-MOD = 15 pin D-subminiature connector, female pin

OLC-MOD = 9 pin D-subminiature connector, female pin

### OCM/OLC J1 connector Pin Definitions (DCE Orientation)

Pin Numbers	Designation	Name	Direction <sup>(2)</sup>
1	SHD	Chassis Ground	Shield
2	TxD	Transmit Data	Input
3	RxD	Receive Data	Output
4	RTS	Request to Send	Input
5	CTS	Clear to Send	Output
6	NC	No Connection	
7	COM	Signal Ground/Common Rtn	Shared
8,9	NC	No Connection	
10 thru 15 <sup>(1)</sup>	NC	No Connection	

(1) Pin Numbers 10 thru 15 are applicable on the OCM-MOD modules only, and are not used on OLC-MOD modules.

(2) Direction provides input/output orientation to/from OCM/OLC module.

### RSS Diagnostic Output Test Point Designations for 1771 Plug-In and Standalone Panelmount OCMs

Test Point Designation	RSS Designation
J2	Ch A RSS Output
Center (Between J2, J3)	RSS Return (Signal Ground)
J3	Ch B Rss Output