

## Protocol Definition - AB DF-1 Full Duplex

### Connector Screen Options

#### RTS ON DelayX10ms

Enter a number from 0 to 255 (0 to 2.55 seconds) to delay sending a message after turning on Request To Send (RTS). Commonly used with modem communication to allow additional time for the modems to synchronize.

#### RTS OFF DelayX10ms

Enter a number from 0 to 255 (0 to 2.55 seconds) to keep RTS on after a message has been sent. Commonly used to keep a radio on for a short period of time at the end of a message.

#### Handshake Option

If Full Handshake is selected the Omnii-Comm will assert RTS and wait for CTS before sending a message. RTS will be turned off after the message has been sent. If Constant Carrier is selected the Omnii-Comm will assert RTS when it sends its first message and leave it asserted. It will wait for CTS before sending. If Ignore CTS is selected, RTS will be asserted before sending a message and removed at the end of the message. The CTS input will be ignored. If No Handshake is selected, RTS will be asserted when the Omnii-Comm sends its first message. RTS will not be turned off at the end of the message. The CTS input will be ignored. If Activity Monitor is selected, the Omnii-Comm will check the DCD input before sending a message. If DCD is ON, the Omnii-Comm will delay sending the message.

#### Retry Count

The number of times a message will be retried before an error is reported

### Option Bit Parameters

#### Use Radio Key

If checked, Bit 0 in a register specified by the "Radio Key Address" on the Header configuration screen will be turned ON before a message is sent and turned OFF after the message has been completed.

#### Error Check BCC/CRC

Selects between two error checking options in DF-1 Communication. This selection must match on all devices connected to this port. Check this option box for BCC error check. Clear this option for CRC error check.

### Protocol Extension Table Parameters

Not used for Allen-Bradley DF-1 Full Duplex protocol.

## Protocol Definition - AB DF-1 Full Duplex

### Poll Table Read Parameters

#### PLC Type

The type of PLC that will be accessed for the Read operation

#### Command

The type of read. Valid selections are PLC 2 Read, PLC 5 Read and SLC 500 Read. Select SLC 500 Read for MicroLogix PLCs. Select PLC 5 Read for ControlLogix PLCs.

#### PLC DH+ Address

The decimal number of the Data Highway address of the PLC. This field is ignored when connecting to Channel 0 of the PLC.

#### LP (5/250 only)

The Logical Processor to access for the Read operation. This field is used for PLC 5/250 PLCs only.

#### File Type

The File Type in the PLC that will be accessed for the Read operation. Valid selections are PLC2, PLC 5 Bit, PLC 5 Integer, PLC 5 Floating Point, PLC 5 Status, SLC 500 Bit, SLC 500 Integer, SLC 500 Floating Point and SLC 500 Status.

#### File Number

The File Number that will be accessed for the Read operation.

#### Starting Element

The first element in the file that will be read.

#### # Bytes Expected

The total number of bytes expected to be returned for the read operation.

### Poll Table Write and Error Parameters

#### PLC Type

The type of PLC that will be accessed for the Write operation

#### Command

The type of Write operation to perform. Valid selections are PLC 2 Protected Write, PLC 2 Unprotected Write, PLC 5 Write and SLC 500 Write. Select SLC 500 Write for MicroLogix PLCs. Select PLC 5 Write for ControlLogix PLCs.

#### PLC DH+ Address

The decimal number of the Data Highway address of the PLC. This field is ignored when connecting to Channel 0 of the PLC.

#### LP (5/250 only)

The Logical Processor to access for the Write operation. This field is used for PLC 5/250 PLCs only.

#### File Type

The File Type in the PLC that will be accessed for the Read operation. Valid selections are PLC2, PLC 5 Bit, PLC 5 Integer, PLC 5 Floating Point, PLC 5 Status, SLC 500 Bit, SLC 500 Integer, SLC 500 Floating Point and SLC 500 Status.

#### File Number

The File Number that will be accessed for the Write operation.

#### Starting Element

The first element in the file that will be written.

#### # Bytes to Write

The total number of data bytes to write

Note: System Error Protocol Definitions are the same as Poll Table Write and Error Parameters

## Protocol Definition - AB DF-1 Full Duplex

### Database Extension Table Parameters

Invalid selection for DF-1 Full Duplex

Index	Name	Size:Max Elements
0	INVALID SELECTION	