

Fatek FBs PLCs – Facon Protocol – TCP/IP and RS232

Summary Information

Communication Driver Name: Facon

Implementation DLL: T.ProtocolDriver. Facon.dll

Protocol: FACON-PLC Communication Protocol

Interface: Serial or TCPIP

PLC types supported: Devices using the Facon Protocol

Manufacturer: FATEK AUTOMATION

PC Hardware requirements: COM Port or Ethernet board

Channel Configuration

Protocol Options

The channel configuration options are system standard

Node Configuration

Station Configuration

DeviceID: The PLC Station Number. The valid values are 0 to 254, where 0 means the message is for all slave stations

For TCP/IP only:

- **IP** = The IP address of PLC
 - **Port** = The IP Port used in the PLC. Default value: 500
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Point Configuration

Address

The syntax for the Facon communication points is: <Operand><Address>

Where:

- **Operand:** Indicates the memory area. The valid values are:

Operand	Read	Write	Bit Read	Bit Write	Data Types	Address Size
X Input discrete	Yes	Yes	Yes	Yes	Byte	1 byte
Y Output relay	Yes	Yes	Yes	Yes	Byte	1 byte
M Internal relay	Yes	Yes	Yes	Yes	Byte	1 byte
S Step relay	Yes	Yes	Yes	Yes	Byte	1 byte
T Timer discrete	Yes	Yes	Yes	Yes	Byte	1 byte
C Counter discrete	Yes	Yes	Yes	Yes	Byte	1 byte
TMR Timer register	Yes	Yes	Yes	Yes	Word	2 bytes

CTR Counter register	Yes	Yes	Yes	Yes	Word	2 bytes
HR Data register	Yes	Yes	Yes	Yes	Word	2 bytes
DR Data register	Yes	Yes	Yes	Yes	Word	2 bytes

- **Address:** Indicates the data address in the memory area

Ex: M0 (Operand = M, Address = 0)

For bit read/write, use the Bit field in the Modifiers column under Edit > Devices > Points

Troubleshoot

The status of the driver's execution can be observed through the diagnostic tools, which are:

- Trace window
- Property Watch
- Module Information

The above tools indicate if the operations have succeeded or have failed. A status of 0 (zero) means communication is successful. Negative values indicate internal driver errors, and positive values indicate protocol error codes according to the Facon specification.