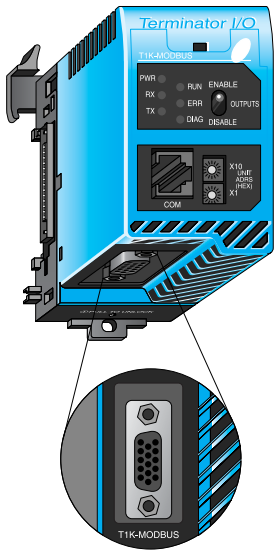


MODBUS RTU Slave

T1K-MODBUS <--->



The Terminator I/O Modbus network interface module allows you to connect I/O as a slave station on a Modbus RTU network. The T1K-MODBUS can communicate with any Modbus RTU network master using high-level Modbus commands.

DirectLOGIC Modbus communications

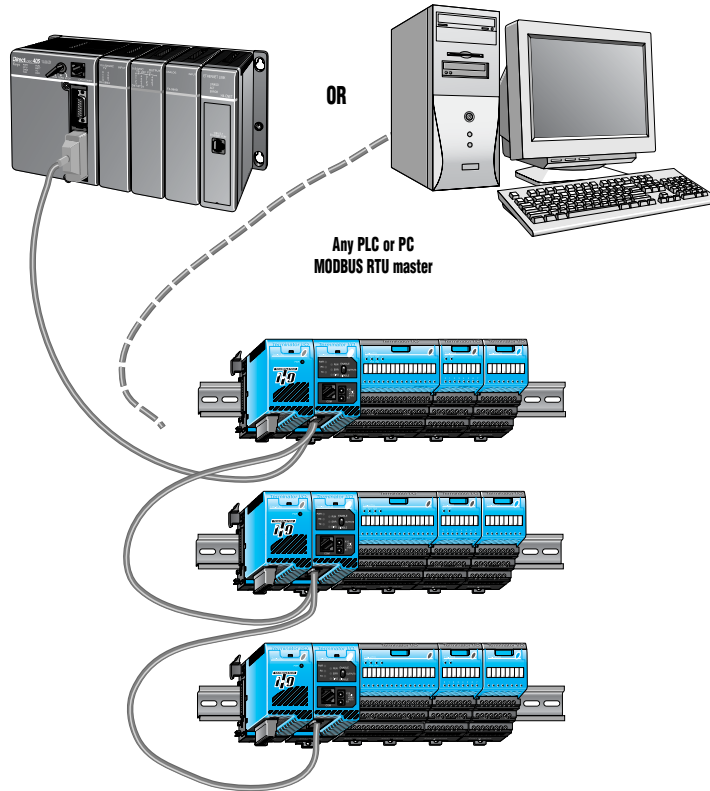
Some of our *DirectLOGIC* PLCs can be used as Modbus masters, directly through a communication port on the CPU. (Consult the PLC section of this catalog for more information.)

Network configuration options

You can configure a simple point-to-point network or create a multidrop network using the RS-232, RS-422/485 HD-15 Modbus port. The T1K-MODBUS has two rotary switches that can be set to designate the module's slave address. Set the rotary switches to give each slave a unique address in a range from 1-F7 hex (1-247 decimal). The T1K-MODBUS also has an auxiliary RJ12 RS-232 serial port that can be used to configure the Modbus port with the T1K-MODBUS Setup Tool.

Asynchronous communications

In most applications, the Modbus master polls the slaves individually (T1K-MODBUS) to read/write each slave's I/O. The communication between the Modbus master and slave will often be asynchronous to the master CPU scan. For this reason, applications should be limited to those that do not require the I/O points to update every master CPU scan.



Specifications			
Modbus Port	Cable Lengths and Baud Rates	RS-232	15 m (50 ft.): 300, 600, 1200, 2400, 4800, 9600; 19.2 K, 38.4 K baud
		RS-422/485	1000 m (3300 ft): 300, 600, 1200, 2400, 4800, 9600; 19.2 K, 38.4 K baud
Max. I/O Points per Controller		Discrete: inputs: 1024, outputs: 1024; Analog: inputs: 64 channels, outputs: 64 channels	
Recommended Cable		Belden 9729 or equivalent (RS-422)	
Terminal Type		15-pin female high-density (VGA style) D-sub connector	
RJ12 Serial Port		RS-232; 9600/19200 baud; supports K-Sequence and ASCII (Use to configure Modbus port using T1K-MODBUS setup tool)	
Base Power Requirement		250 mA @ 5 VDC	

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- DL105 PLC
- DL205 PLC
- DL305 PLC
- DL405 PLC
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