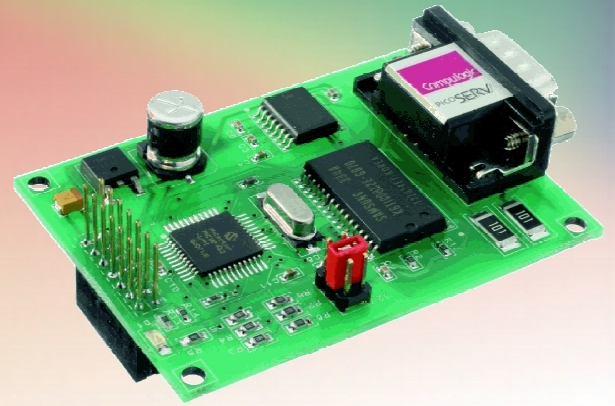




MODBUS Interface Module

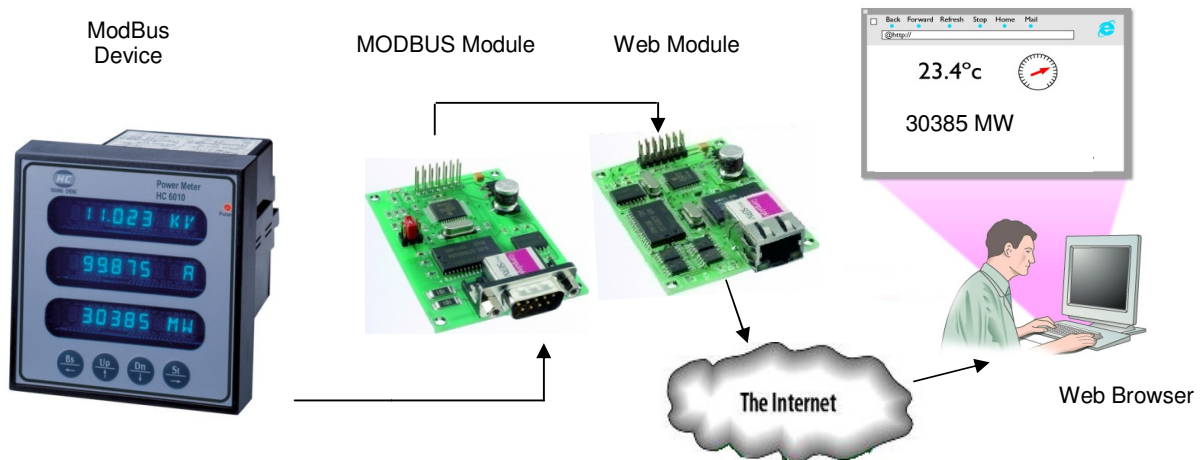
Part of the family of I/O expansion modules for the PicoServ miniature web server system, the MODBUS Interface Module is designed to allow MODBUS compatible instruments to interoperate with the PicoServ Web Server module or SMS gateway Module.



The PicoServ MODBUS Interface module is designed to add a general purpose RS232 MODBUS compatible input port to a PicoServ system. The MODBUS interface module stacks directly onto the PicoServ web server or SMS gateway module to provide a means of reading data register values from MODBUS compatible instruments.

MODBUS data received by the module may be read via an HTML web page in a web browser, in a Network Management System using the SNMP protocol or on a mobile GSM phone via a text message if an SMS gateway is installed in the PicoServ system.

The diagram below shows an example application of the PicoServ MODBUS input module.



PicoServ MODBUS Interface Module Application

Specifications

Interfaces

RS232 Serial interface

Format: 8 data bits, no parity.
Baud rates: 2400, 4800, 9600, 19200, 38400, 76800, 102400bps.
Connector: 9 pin male 'D' type connector

I2C Serial bus interface

Used for parameter and data exchange between The SMS Gateway module and PicoServ web server or I/O modules. Conforms to Philips I2C bus specification.

Speed: 750Kbps.
Addresses: 8, a-h
Connector: 14 pin 0.1" male header.

MODBUS

Read Register Functions

16 configurable ModBus data registers

Data Types Supported:

Byte unsigned
Word unsigned
Double Word unsigned
Word signed
Double Word signed
ASCII String
Hex Word
Hex Byte

Write Register Functions

Not currently supported

Electrical

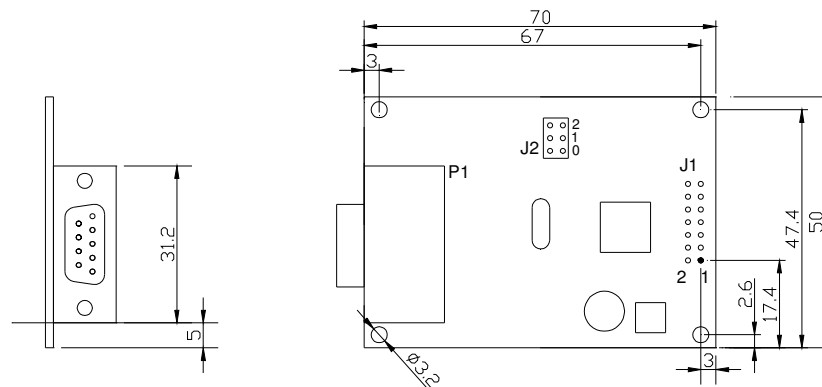
Power requirements 6-28 VDC, 20mA
Power consumption 180mW

Environmental

Operating Temperature 0 - +70oC
Storage Temperature -40 - +100 °C
Humidity 0-95% non-condensing

Dimensions

70mm x 50mm x 16mm (2.75" X 2" X 0.625")



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