

6543A Babelstar – Protocol Converter



The Model 6543A Protocol Converter (aka 'BabelStar') converts Modbus to SDI-12 requests OR converts HSIO data to Modbus data. SDI-12 is a standard protocol that defines exactly how a sensor must communicate with a datalogger. HSIO is a Unidata proprietary protocol.

Modbus to SDI-12 Conversion

The Model 6543A Protocol Converter acts as a Modbus slave on a Modbus RTU bus. On receipt of certain Modbus commands the Protocol Converter module initiates SDI-12 commands – awaits the response and returns the results as Modbus values. The data returned is selectable as either a binary decimal value with a sign delimiter or as an IEEE 32bit floating point value.

Modbus to HSIO Conversion

The 6543A Protocol Converter can also act as a HSIO slave on the HSIO connection from a UNIDATA data logger or Starflow. On receipt of HSIO data the Protocol Converter module stores the HSIO data into memory. On receipt of certain Modbus commands, the Protocol Converter returns the requested memory values as Modbus values. The data returned is in Modbus RTU format and is returned as an exact representation of the HSIO value/s received.



Requirements

The Protocol Converter requires a 5 to 24 volt power source capable of supplying a 15 mA load.

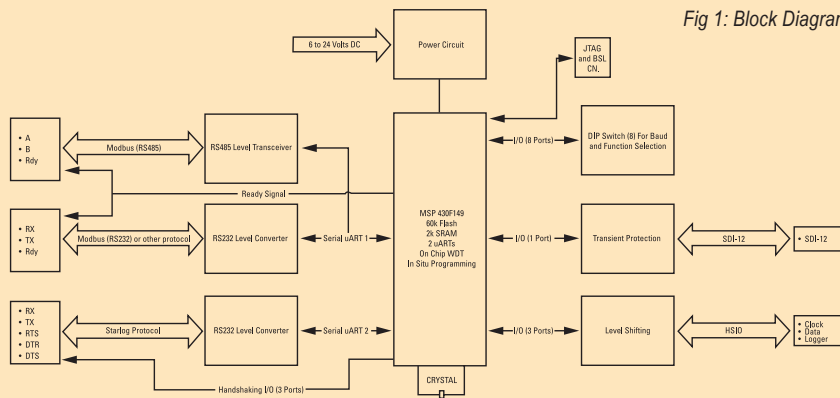


Fig 1: Block Diagram

Specifications

Connections:	RS232 x 2 (A and B) RS485 x 2 (A and B) SDI-12 x 1 HSIO x 1 DC Power
Power Supply:	5 to 24 VDC @ 14 mA active
Operating Temperature:	0 to 50° C
Storage Temperature:	-10 to 60° C
Housing Type:	Polycarbonate Enclosure
Housing Size:	80mm W x 140mm L x 65mm D

6543A

- Supports RS485 & RS232 Standards
- Modbus Host to multiple SDI-12 sensors
- Modbus to SDI-12 conversion
- Modbus to HSIO conversion
- Allows integration into process control (PLC, SCADA) systems
- Cost effective

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