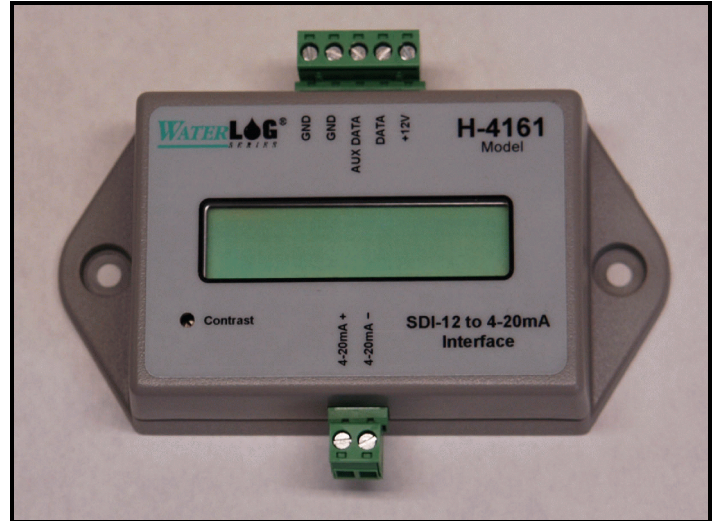


With the **WATERLOG[®]** Model H-4161 SDI-12 to 4-20mA interface you can connect any SDI-12 sensor to a PLC, RTU or other device which has a 4-20mA input.

The H-4161 monitors the communication between a data logger and its sensors and captures measurement data from a specified sensor and data parameter.

If no data logger is needed, the H-4161 can initiate measurements itself.



KEY FEATURES

- Precision 16-bit, 4-20mA current transmitter.
- 1000V output isolation from the SDI-12 bus.
- Can monitor the SDI-12 bus for a specified sensor address and data parameter.
- Can initiate measurements to an attached sensor if no data logger is used.
- Programmable Max and Min data set-points for automatic data scaling into 4-20mA units.
- Manual “set” of the 4-20mA output for testing via an extended SDI-12 command.
- Built-in 2-line LCD display shows the current SDI-12 data and milliamp output values.
- Detachable connectors



SPECIFICATIONS

4-20mA Current Transmitter

Type: 2-wire, loop powered
Isolation: 1000V r.m.s min
Loop Voltage: 5.5V min, 35V max
Resolution: 16 bits
Non-linearity: $\pm 0.01\%$ of FS max
Offset Drift: ± 25 ppm of FS/ ° C max

Power Requirements

Voltage Input: 9 to 16 Volts DC
Surge Protection: Built in, 1.5 KVA
Supply Current:
 Sleep mode: 2.1 mA typ
 Active: 8.0 mA typ

SDI-12 Ports

Baud Rate: 1200
Protocol: SDI-12, 7-bit even parity, 1 stop bit
Output Voltage Levels:
 Minimum High Level: 3.5 volts
 Maximum Low Level: 0.8 volts

Response Time

SDI-12 measurement sequence:
 aM!: 0-seconds, 1-parameter
 all other: 1- second, 1-parameter

LCD Display

Type: 2-line x 16-character, reflective
Operating Temperature: -0° C to +50° C
Storage Temperature: -20° C to +60° C

Operating Modes

Monitor: Monitor the SDI-12 port for "aD0!" commands, update the 4-20mA output

Initiate: Initiate measurements on the AuxSDI port, update the 4-20 mA output, data is available via "aM!" on the primary SDI-12 port

Transparent: SDI-12 and AuxSDI ports are connected together

Environmental

Operating Temperature: -20° C to +50° C
Storage Temperature: -20° C to +60° C
Humidity: Non condensing

Mechanical

Material: ABS plastic
Size: 3.75" Long x 2.65" Wide x 1.25" Deep

Connections

+12V, SDI-12, AuxSDI: 5-position plug-in terminal strip, Phoenix Combicon™ (provided)

4-20mA: 2-position plug-in terminal strip, Phoenix Combicon™ (provided)

The **WATERLOG®** H-4161 is warranted against defects in materials and workmanship for one year from date of shipment.

Notes

Specifications subject to change without prior notice due to ongoing commitment to product testing and improvement.

LR June 14 2007