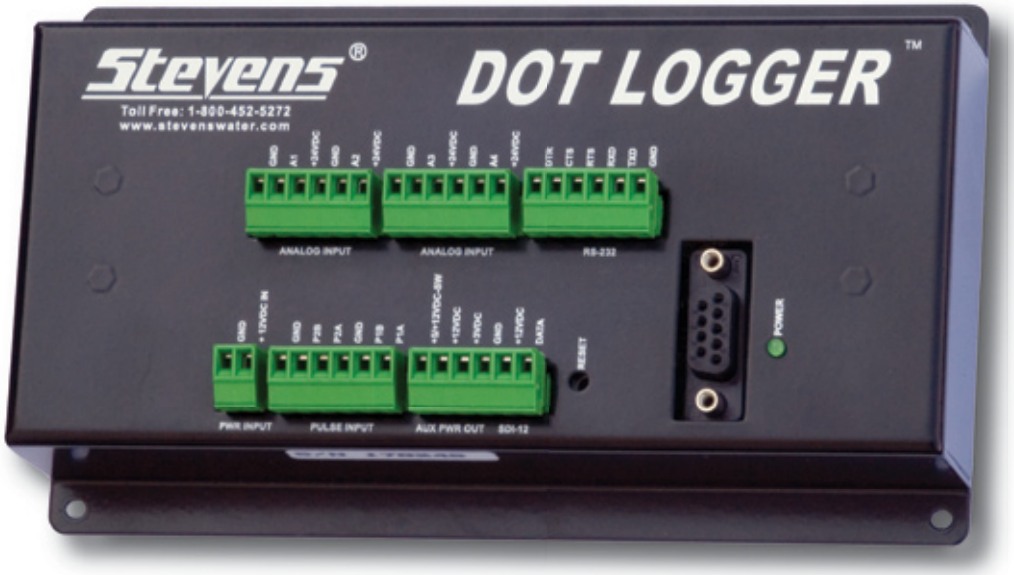
DOT Logger DATA SHEET



Description

The Stevens Data Online Telemetry (DOT) Logger is a flexible, compact, and inexpensive data logger specifically designed for accurate measurements from a variety of sensors. The DOT Logger's design includes four analog and four pulse count inputs, and can monitor up to 190 channels from multiple SDI-12 sensors in remote environmental applications.

The DOT Logger telecommunications options include satellite transmitters (geostationary such as GOES or low earth orbiting such as ORBCOMM), cellular or PTSN modem, or radio (UHF, VHF, spread spectrum). Free software that is shipped with the DOT Logger includes DOT SET for easy set up and configuration of the DOT Logger and Stevens LoggerXL (part of AxRead) for simple exchange of data between the DOT Logger and a computer. Once downloaded to a PC, the data can easily be viewed in a comparable tabular or graphical format or exported to MS Excel or other programs.

This flexible data collection package with the telemetry options easily brings the remote site monitoring information to your computer and/or standard web browser software.

Features

- 4 analog, 4 pulse, 190 SDI-12 channels
- Simple configuration for telemetry applications:
  - Satellite
  - Radio
  - Telephone
  - Ethernet Links
- Windows software for easy interaction:
  - Set up and configuration
  - Data exchange to PC
  - Graphical analysis
  - Tabular analysis
  - Data export to other software programs
- Internet accessible via Web browser (optional)

Applications

- Water resources:
  - Water level/stage
  - Water flow
  - Water quality
- Groundwater
- Irrigation scheduling
- Meteorological & Agriment
- Soil moisture, temperature, salinity, conductivity, and more

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Since 1911, Stevens Water Monitoring Systems, Inc. has provided complete water monitoring solutions including:

- Water Level Sensors
- Water Quality Sensors
- Soil Moisture Sensors
- Chart Recorders
- Staff Gages
- Telemetry Systems
- Data Collection Platforms

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Technical Specifications

Power Requirments
10 - 17 VDC, <0.5mA standby current (telemetry system may require additional power)

On-Board Data Storage
FLASH EPROM, 256k Bytes, capable of storing 60,000 readings

Recording Interval
1, 5, 6, 10, 15, 30 seconds
1, 5, 6, 10, 15, 30 minutes
1, 2, 4, 6, 8, 24 hours

Real-Time Clock
Accurace +/- 1 minute/month, leap year correction

Non-Volatile Memory
All setup parameters and clock, lithium battery

Message Size
6 - 250 bytes typically, no maximum

Serial Port
RS-232, minimun +/- 5 VDC levels, 300 to 9600 baud

Analog to Digital (A/D) Bits
12

Communications
RS-232 (MODBUS optional)

Temperature and Humidity
Operating: -40 to 158 F (-40 to 70 C)
NEMA 4 enclosure: 100% condensing
Aluminum enclosure: 95% non-condensing

Sensor Input Selections

Four (4) Analog - Single Ended:
Input type: 2 wire, 4 - 20 mA current loop
Sensor power: 24 VDC, under firmware control
Accuracy & Resolution: 0.25% accuracy, 0.1% resolution

Four (4) Pulse Count:
Input type: pulse
Sensor power: 5 or 12 VDC continuous
Maximum rate: 30 pulses per minute

190 Serial:
Input type: SDI-12
Sensor power: 12 VDC continuous, 5 or 12 VDC under firmware control (switched)

One Switched Excitation Voltage:
5 or 12 VDC

Physical Size (L x H x D)
NEMA 4 - 7.87 in x 4.72 in x 2.95 in (199.9 mm x 119.9 mm x 74.9)
Black housing - 6.3 in x 4.2 in x 1.3 in (159.0 mm x 105.2 mm x 33.7 mm)

ORDERING INFORMATION	
Part #	Description
93273	DOT Logger with black aluminum enclosure
93518	Optional NEMA 4 enclosure

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