

DAT Series

NEMA 4X Data-Logger

Senex[®]
Corporation

Battery Powered Pressure & Temp Data-Logger

The DAT Series is a self-contained battery powered pressure & temperature data logger designed for outdoor use. Key feature of this product is reliability and stability in harsh environments.

The DAT Series is modular and can be configured for all of Senex's pressure sensors (excluding the DPC and DPL). The data-logger is the Hobo[®] Series supplied by OnSet. With its "easy to use" data collection and affordable price, the DAT Series is an attractive solution to remote data-logging applications.

The DAT offers flexibility with user selectable start/stop and interval times and data collection for up to one year. Selectable memory modes are also available.

Data collection is through a PC or with the optional Hobo[®] Shuttle..



Standard Features

- ? *Fully self contained*
- ? *Gage, absolute, or differential modes*
- ? *+/-1% FSO Accuracy*
- ? *7900 total measurements*

Senex Corporation
347 Lang Blvd
Grand Island, NY 14072

*Design & Manufacture of
Pressure Instruments*

www.senexcorp.com
P 716.773.2985
F 716.773.2786

DAT Series Data-Logger



Records pressure & temperature
Designed for harsh environments

Product Specifications

Electrical

Excitation	Internal Battery Typical life is 1 year
Output	RS232
Zero Balance	$\pm 1\%$ FSO (pressure sensor)
FSO Setting	$\pm 1\%$ FSO (pressure sensor)
Resolution	$\pm 5\%$ FSO
Response Time	< 10 mS
Insulation Resistance	1000 MO @ 50 Vdc
Reverse Polarity	Protected
Warm-up	< 50 mS
EMI/RFI	Internal Filtering

Performance (with pressure sensor)

Static Accuracy	$\pm 1\%$ FSO* (BFSL, RSS) (combined effects of non-linearity, hysteresis & repeatability)
Repeatability	$\pm 0.1\%$ FSO
Temperature Effects	$\pm 1.5\%$ FSO over comp range (combined effects of Zero & FSO with reference at 70 °F)
Long Term Stability	$\pm 0.25\%$ FSO per year
Temperature Accuracy	$\pm .7$ °C

Data-logger

User selectable sampling intervals: 0.5 S to 9 hours
Programmable Start and Stop Time
Memory modes: Stop when full, Wrap around when full
Read out and re-launch with HOBO Shuttle
Capacity: 7,943 measurements
Battery level indication at launch
Nonvolatile EEPROM memory retains data
Time accuracy: +/-1 minute per week
User replaceable battery

Mechanical

Pressure Ranges	0-3 through 0-15k psi (Customer may specify any range/eng. unit FOC) (Absolute, vacuum, compound available options)
Proof Pressure	2X Full Scale
Burst Pressure	5X Full Scale
Materials	
Wetted Parts*	316 & 15-5 SST
Non-wetted Parts	316 SST plus electrical connector
Pressure Port	¼"-NPT Male
Electrical Connector	2.5 mm Jack
Dimensions	per outline below
Weight	20 oz

Environmental

Compensated Temp Range	0 to 60 °C
Operating Temp Range	-20 to 70 °C
Storage Temp Range	-20 to 70 °C

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