

Senator+

Satellite System

ENVIRONMENTAL MONITORING
PRESSURE CONTROL
LEAK DETECTION
DATA LOGGING
FLOW MEASUREMENT



KEY BENEFITS

- Nine Channel Logger with:
4 off analogue channels
4 off digital channels
1 off sonic sense channel (serial)
- Rechargeable battery system using a Solar Panel
- Satellite Modem for Data Communication
- Memory capacity 48,000 reading (shared between channels)
- Programmable alarms.



The Senator+ satellite system from Fluid Conservation Systems is the latest development for collecting data from remote locations where there is no PSTN/GSM coverage. It is ideal for use in remote sites without mains electrical power or mobile phone coverage.

Batteries recharged by a solar panel allow the nine channel data logger and satellite modem to operate and transmit data without the need for regular site visits. The logger has user programmable alarm systems and interfaces with powerful Radwin software to provide detailed analysis.

Typical Applications

Remote Reservoirs / Treatment Works / Pumping Stations

The Senator+ satellite system is ideal for monitoring flow, pressure, level and or water quality parameters to assess performance of remote assets.



Open Channel Flow or Level Monitoring

The Senator+ Satellite System when used with SonicSens is ideal for monitoring liquid level in rivers and open channels, including many overflow applications.



For more information call (513) 831-9335
or visit www.fluidconservation.com

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Sensor Input	Digital	Uni- or bi-directional pulse. Instrument powered or non-powered sensors eg PD100.
	Analogue	Internal Pressure Transducer
		0-20 bar / 0-200 metres head / 0-300 psig, repeatability $\pm 0.1\%$.
		External Pressure Transducer (volt) or Transmitter (mA)
		0-20 bar / 0-200 metres head / 0-300 psig, repeatability $\pm 0.1\%$
		4-20mA from isolated sensor
	0-1v, 1-5v, or 0-100mVolt	
Logging Features	Memory	Recording 48,000 readings (shared between channels).
		Can be programmed to read continuously (cyclic mode) or for a specific period of time (block).
	Frequency	Sample rate 1 second to 1 day.
	Alarms	Minimum or maximum duration-triggered threshold alarm per channel. 16 Alarms per logger. Each alarm out comment field 16 characters. Can be programmed to auto dial up to 16 telephone numbers on alarm with telemetry option (ie 1 per alarm).
	Logger ID	Up to 8 alphanumeric characters.
		Also readable factory set serial number in firmware
	Site ID	Up to 127 alphanumeric characters.
	Clock	On board 24 hour real time clock with date facility.
Secondary Channel	Can be programmed to record either fast data, average minimum, average maximum or time interval between pulses (for data smoothing).	
Logging Modes.	Count and Event logging modes independent for both recordings.	
Communication	Serial	RS232 by MIL connector for connection laptop PC or desktop PC.
Physical	Dimensions	9.9"H x 6.9"W x 3.5"D (250mm H x 175mm W x 90mm D)
	Construction	Die-cast aluminium enclosure, powdercoat spray painted
	Weight	11.0 lb (5 Kg)
	Operating Temp	-5 to +160°F (-20 to +70°C)
	Ingress protection	IP68 submersible
	Power	Rechargeable

FCS reserve the right to change the specification of any product without prior notice.

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