

SENSUS DATA LOGGER

The Casella CEL Sensus, is a comprehensively specified universal data logger that can accurately measure inputs from a wide range of sensors.

Key Features

- 24 Digital inputs (via analogue) (upgradeable to 32)
- 16 alarm channels activating 4 alarm output channels
- 16 differential - 24 single analogue channels (8 via expansion socket)
- 4 counter channels
- 512k Flash memory as standard - (15,000 data sets @ 7 channels)
- Compact Flash slot for expansion to 256 MB
- Firmware field-upgradeable
- Built in maths function - allows scaling of signals to engineering units
- EMC and transient suppression filters on all lines
- Integrated lead acid charger - solar regulator system
- Data DOS formatted for drag and drop applications
- Modem alarm dial out facility
- Alarm notification by SMS using GSM modem
- Optional temperature and barometric pressure sensors



It can also be used to control and access data from external intelligent devices via a dedicated RS232 communication port. Its large standard memory (512k) can be extended with Compact Flash memory cards, which also facilitate rapid data downloads directly into DOS files for historical analysis using Online Pro software.

The Casella CEL Sensus is ideally suited for all types of monitoring applications in Research, Scientific, Environmental and Industrial applications.

The logger unit can be supplied individually, networked or as part of an integrated monitoring station from Casella CEL. Competitive pricing also allows OEM and badging of units if required.

Specification	SENSUS DATA LOGGER
Specifications:	
A-D converter	15-bit, plus-sign ($\pm 2.5V$, $\pm 250mV$ and $\pm 25mV$ ranges)
Counters	32-bit @ 3KHz (50KHz high speed channels)
Calculations in any analysis	8-byte floating point format
Logged values	4-byte floating point format
Calibration	8-term polynomial
Real time clock accuracy	± 1 minute per month
Recording interval	5 seconds to 24 hours
Sensor scanning interval	2 seconds to 5 minutes
Memory (internal)	512KB (1 channel, 47662 readings) (7 channels, 14980 readings)
Memory (external)	Up to 256MB Using 16MB (1 channel, 1448941 readings) (7 channels, 455381 readings)
Data protection	Internal battery, typically 40 days Lithium backed memory, typically 5 years
Serial interface	RS232 (2 off), RS485 (1 off) Speeds 110, 300, 600, 1200, 2400, 4800, 9600 19200, 38400, 57600, 115200 Data bits, stop bits and parity, configurable XON/XOFF flow control
Operating temperature	-20 to +70°C
Humidity	0 to 100% (non-condensing)
Enclosure sealing	IP68
Part Number:	183000D 183027A Online Pro 32-bit software for use with Sensus (OEM)
Ordering Information	
As the Casella CEL AWS is built to exact customer specifications, please contact the sales department for more information and a full quotation.	
Contact Details	
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