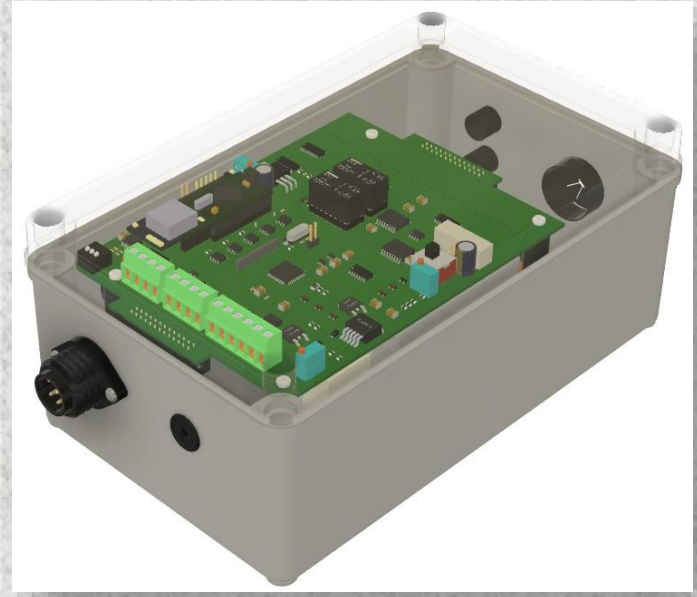
OEM

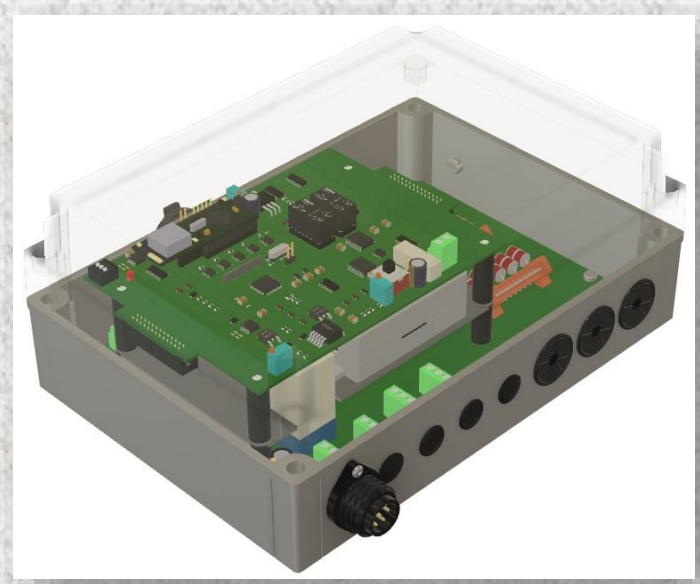
EXTENSOMETER DATA LOGGER

Resistance Wire Extensometer

Rod Extensometer

Borehole Extensometer





OEM EXTENSOMETER DATA LOGGER FEATURES

Available in 8-ch and 24-ch options

Measure up to 24 single ended voltage transducers

For use with Voltage based instruments, Extensometers and Crack meters.

Measure up to 3 x 6 Channel Extensometers with lead wire compensation

Measure up to 6 Crack meters with lead wire compensation

Data logging of attached instruments with time and date stamp

In built transient suppression on all channels (lightning protection)

Integrated alarm outputs. Two normally open or normally closed relay contacts capable of switching maximum 2A current

Intuitive GUI software for configuring inputs, scheduling alarms and uploading stored data

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EXTENSOMETER DATA LOGGER

OPTIONS

10W Solar panel /charger kit for charging of internal sealed lead acid battery

RS232 and USB access port options for local administration and data recovery

GSM and FTP modem options for remote administration, data recovery and SMS notification of alarm conditions

LoRa WAN Long range wireless communications

Custom powder coated / stainless steel IP66 rated enclosure available on request

OEM EXTENSOMETER LOGGER APPLICATIONS

The Extensometer Logger is an 8/ 24 channel data acquistion sytem designed specifically for long term field deployment. The cost effective glass filled polycarbonate enclosure offers dust and moisture ingresss protection and is able to be mounted within a steel enclosure should additional environmental protection be required.

The Exto Logger is compatible with indusrty standard voltage transducers for the measurement of the following parameters:-

- Extension
- Displacement
- Landslip
- Cracks
- Settlement, heave and shrinkage
- Construction joints
- Structural health

COMPATIBLE INSTRUMENTS

The following types of instruments are supported by the OEM Exto Logger :-

- Resistance Wire Extensometers
- Displacement Transducers
- Crack meters
- Convergence Monitors
- Linear Potentiometer

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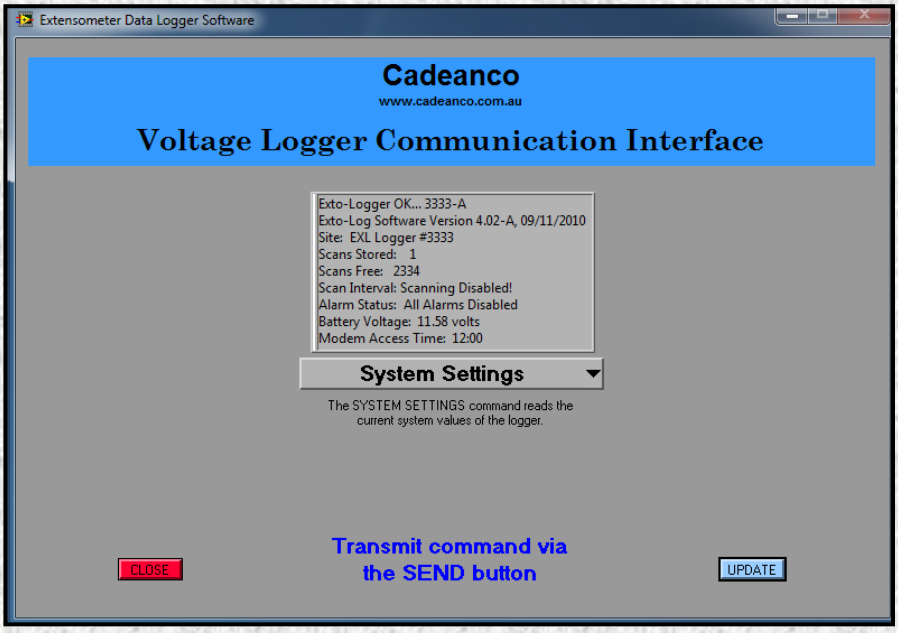
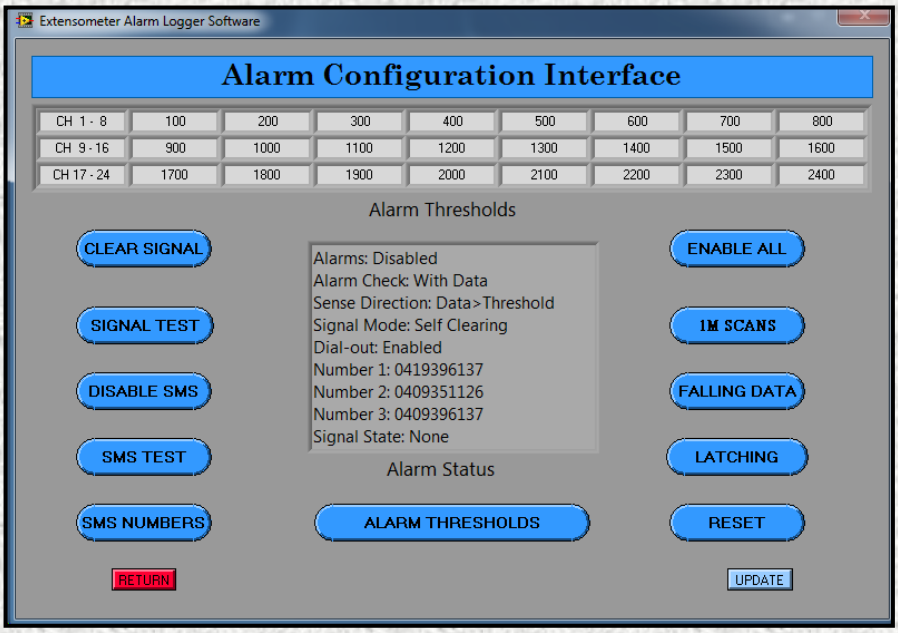
EXTENSOMETER
DATA LOGGER

WINDOWS BASED GUI FOR SYSTEM CONFIGURATION AND DATA STORAGE / RETRIEVAL





OEM

EXTENSOMETER DATA LOGGER

PROUDLY AUSTRALIAN DESIGNED AND BUILT

EXL8 SPECIFICATIONS

PHYSICAL SPECIFICATIONS:

Size:	140mm high x 230mm wide x 100mm deep	
Weight:	1.2Kg	
Material:	Grey polycarbonate case with clear lid	
Sealing:	Dependant on supplied external case	
Temperature:	Operating Temperature	-20°C to +55°C
	Storage Temperature	-25°C to +70°C

ELECTRICAL SPECIFICATIONS

Power:	External Battery required Suggested minimum: Sealed Lead Acid, 12V, 1.3Ah 240V Plug-pack Charger Module supplied
Options:	10W Solar Charger

Data Logging:

Input Channels:	Up to a maximum of 8 via single 8-ch input
Excitation:	1 x 4v regulated plus 1 x fused 12v, 150mA per input
Resolution:	1uV
Digital Filtering:	64 sample integration

Storage Capacity:

Extensometer:	1 instrument, 6 anchors per extensometer Up to 21833 scans
Voltage Input:	Up to 8 single-end inputs, 4V max input level Up to 21833 scans with 8 inputs connected.
Crackmeter:	Up to 2 instruments Up to 21833 scans with a single crackmeter.
Data Backup:	150 years without primary power
Logger Timing:	Real-time clock, non-volatile operation
Scanning Intervals:	1-min, 10-min, 1-hour, 6-hour, 12-hour, 24-hour Manual trigger mode via computer interface

OEM

EXTENSOMETER DATA LOGGER

PROUDLY AUSTRALIAN DESIGNED AND BUILT

Alarm Logging (not available for LoRaWAN):

Logging Control:	Global enable/disable of all alarm functions
Scan Rate:	Synchronous with data or 1-minute intervals
Trigger Level:	Individual channel threshold value set by operator
Trigger Sensing:	Threshold crossed in either [+ve] or [-ve] direction
Signal Mode:	Set by operator to either Latched or Self-clear mode
Signal Outputs:	Integrated alarm with 2 isolated relay terminals Maximum relay current of 2A SMS alert option when a modem is fitted

Communications:

Baud Rate:	9600 baud, 8 data, 1 start, 1 stop, no parity
Data Format:	Data (mV units), Time, Date
Data Separator:	Tab/CSV separated columns, ASCII text format
Data Recovery:	Custom WINDOWS Interface software USB Memory Device GSM Modem FTP Modem LoRa WAN (data pushed with scan)

Modem Options:

Type:	Intellimax+4G (GSM or FTP Modes available)
GSM Comms Rate:	9600 Baud, Non-transparent mode
FTP Mode:	Includes a default time window for remote bidirectional communication with logger
SIM Card:	Micro-SIM

OEM

EXTENSOMETER DATA LOGGER

PROUDLY AUSTRALIAN DESIGNED AND BUILT

EXL24 SPECIFICATIONS

PHYSICAL SPECIFICATIONS:

Size:	180mm high x 255mm wide x 105mm deep	
Weight:	1.3Kg	
Material:	Grey polycarbonate case with clear/smoke lid	
Sealing:	Dependant on supplied external case	
Temperature:	Operating Temperature	-20°C to +55°C
	Storage Temperature	-25°C to +70°C

ELECTRICAL SPECIFICATIONS

Power:	External Battery required Suggested minimum: Sealed Lead Acid, 12V, 1.3Ah 240V Plug-pack Charger Module supplied
Options:	10W Solar Charger

Data Logging:

Input Channels:	Up to a maximum of 24 via 3 x 8-ch inputs
Excitation:	1 x 4vregulated plus 1 x fused 12v, 150mA per input
Resolution:	1uV
Digital Filtering:	64 sample integration

Configurations:

Extensometer:	Up to 3 instruments, 6 anchors per extensometer Up to 21833 scans with a single extensometer connected
Voltage Input:	Up to 24 single-end inputs, 4V max input level Up to 21833 scans with 8 inputs connected.
Crackmeter:	Up to 6 instruments Up to 21833 scans with a single crackmeter.
Data Backup:	150 years without primary power
Logger Timing:	Real-time clock, non-volatile operation
Scanning Intervals:	1-min, 10-min, 1-hour, 6-hour, 12-hour, 24-hour Manual trigger mode via computer interface

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