

VWL8 Logger Specifications

PHYSICAL SPECIFICATIONS:

Size:	140mm high x 230mm wide x 100mm deep	
Weight:	1.2kg	
Material:	Glass-filled polycarbonate 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:	Suggested minimum: Sealed Lead Acid, 12V, 1.3Ah
	Supplied:	240V Plug-pack Charger Module
	Option:	10W Solar Charger
Data Logging:	Input Channels:	1 x 8-ch input
	Storage Capacity:	21833 scans of vibrating wire data 16376 scans with thermistor temp data
	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
Alarm Logging:	Logging Control:	Global enable/disable of all alarm functions
	Alarm Scan Rate:	Synchronised with data scan or at 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
Sweep Ranges:	1800Hz – 3600Hz	Standard piezometer
	1500Hz – 2500Hz	Roctest piezometer
	1000Hz – 3500Hz	Geovan piezometer, Spot welded strain gages
	450Hz – 1000Hz	Geovan arc welded & Embedded strain gages
	2500Hz – 6000Hz	Geovan stress meter
Communications:	Baud Rate:	9600 baud, 8 data, 1 start, 1 stop, no parity
	Data Format:	Data (f ² units), Temperature (°C), Time, Date
	Data Separator:	Tab/CSV separated columns, text format
	Data Recovery:	Custom WINDOWS Interface software USB Memory Device GSM Modem FTP Modem LoRaWAN (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

Cadeanco is continually improving its products and processes and as such, information contained in this document is subject to change without notice.

VWL24 Logger Specifications

PHYSICAL SPECIFICATIONS:

Size:	180mm high x 255mm wide x 100mm deep	
Weight:	1.3kg	
Material:	Glass-filled polycarbonate with smoke-tint 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:	Suggested minimum: Sealed Lead Acid, 12V, 1.3Ah
	Supplied:	240V Plug-pack Charger Module
	Option:	10W Solar Charger
Data Logging:	Input Channels:	Up to a maximum of 24 via 3 x 8-channel inputs
	Storage Capacity:	8 Channels: 21833 scans of vibrating wire data 16376 scans with thermistor temp data
		16 Channels: 13098 scans of vibrating wire data 9356 scans with thermistor temp data
		24 Channels: 9356 scans of vibrating wire data 6549 scans with thermistor temp data
	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
Alarm Logging:	Logging Control:	Global enable/disable of all alarm functions
	Alarm Scan Rate:	Synchronised with data scan or at 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
Sweep Ranges:	1800Hz – 3600Hz	Standard piezometer
	1500Hz – 2500Hz	Roctest piezometer
	1000Hz – 3500Hz	Geovan piezometer, Spot welded strain gages
	450Hz – 1000Hz	Geovan arc welded & Embedded strain gages
	2500Hz – 6000Hz	Geovan stress meter

Communications: Baud Rate: 9600 baud, 8 data, 1 start, 1 stop, no parity
Data Format: Data (f² units), Temperature (°C), Time, Date
Data Separator: Tab/CSV separated columns, text format
Data Recovery: Custom WINDOWS Interface software
USB Memory Device
GSM Modem
FTP Modem
LoRaWAN (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

Cadeanco is continually improving its products and processes and as such, information contained in this document is subject to change without notice.