

## Flexible and robust data logging solution



The Isodaq VF series of continuous recorders are part of the range of flexible and robust data logging and telemetry solutions manufactured by Hydro-Logic Limited.

All Isodaq products are designed for water and environmental monitoring applications where systems are operated in remote installations often under hostile site conditions.

Applications include:

- Water level and flow
- Rainfall and weather
- Groundwater
- River and tidal
- Water quality
- Meter reading
- Tank fluid level
- Discharge overflow
- Sampling control.



### Sensor options

The logger can be adapted for virtually any type of sensor by simply interchanging a small internal sensor card. Multi-channel systems are also available in the Hawk range.

### Software

Logger and outstation set-up, and data recovery is provided as standard using our Harvest Windows software package. A Pocket PC system is available for operations in the field that is compatible with many Windows Pocket PDAs.

### Battery power

Powered by 4 x AA alkaline cells fitted internally; field replaceable with a typical life exceeding one year. Connection for optional external 6V battery pack is included.

### Communications

Infra-red technology provides one metre range for wireless communications with PC IR ports or via a plug-in infrared adaptor. Hard-wired serial port connection can also be made inside the logger.

## HydroLogic

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# VF Series Data Loggers

## The VF range of data loggers



VF1e single channel logger



VF1p single channel logger

MODEL	CHANNELS	W x H x D	IP RATING	MATERIAL
VF1e	1 (A or D)	82 x 110 x 55	IP65	Polycarbonate
VF1p	1 (A or D)	250 x 75 x 55	IP68 / IP67	GRP

ENCLOSURE dimensions for all loggers within the Isodaq range  
(All dimensions include gland allowance of 30mm)

## Input types with sensor cards

CARD	APPLICATION	SENSOR TYPE
C21	Rainfall recording, wind speed, meter reading or frequency input	Tipping bucket raingauge, anemometer flow
C22	Water level	Electricity or gas meters with pulsed output
C23	Voltage, wind direction	Incremental shaft encoder
C24	Current loop	Wind vane
C25	Fluid depth / level	4-20mA loop inputs
C26	Voltage AC current	Pressure transmitter (mA), ultrasonic (24V)
C27	Temperature	DC current clamp
C31	Turbidity	Thermistor probe
C32	Anemometer	4-20mA input 12V power
		Frequency input



## Logging features

### Strategies:

- Event logging - pulse timing
- Frequency pulse rate count
- Interval logging (averaged or instantaneous)
- On - off logging
- Dual rate logging.

## Storage intervals

User specified from ten seconds to four hours either instantaneous or averaged over specified intervals. Data stored at 'cardinal points' as per specified interval (e.g. 15 minutes logging at 00:00, 00:15, 00:30, 00:45 etc).

## Alarm relay

Alarm relay (1A at 30V dc, 0.5A at 125 ac) with high / low set point.

## Accuracy and storage

32400 8-bit readings, 16200 16-bit readings or 10800 event times. Storage depends on range file selected. The oldest data is overwritten when the logger is full so the most recent data is always stored.

## Battery options

Model	Battery type	Type of fitting
VF1e	4 x AA alkaline	Fitted internally
VF1p	4 x C alkaline	Fitted internally

Battery life typically one year depending on sampling rate and sensor load. Optional external 6V battery connection is available to extend battery life. Rechargeable lead-acid cells are also available for use with trickle charger.

## Environmentally protected

The rugged enclosures offer excellent protection from environmental hazards such as water, humidity, dirt and dust.



Choice of field data retrieval systems for Pocket PC based on PDAs including wireless IRDA infrared communications. PDA options include the ruggedised Archer or iPAQ handheld computer