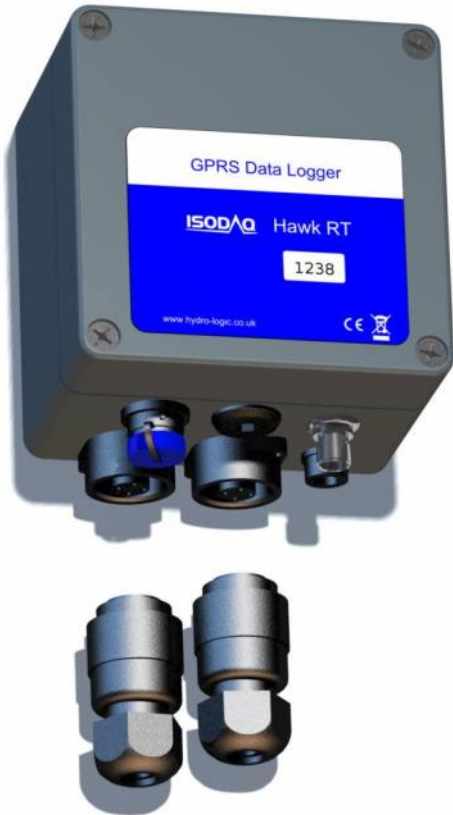


The Hawk RT rugged telemetry logger



The Isodaq Hawk RT telemetry logger is part of the range of flexible and robust data logging and telemetry solutions manufactured by Isodaq Technology, a division of 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.

Perfect under hostile site conditions

The Hawk RT is a rugged telemetry data logger specifically designed for installation and use under hostile site application conditions where instrumentation is under continuous environmental abuse.

Sealed connectors allow installation without opening the box. It is currently available with two or four channel options.

The Hawk RT is perfect for use where instrumentation bollards, manholes or meter box covers are used for enclosures.

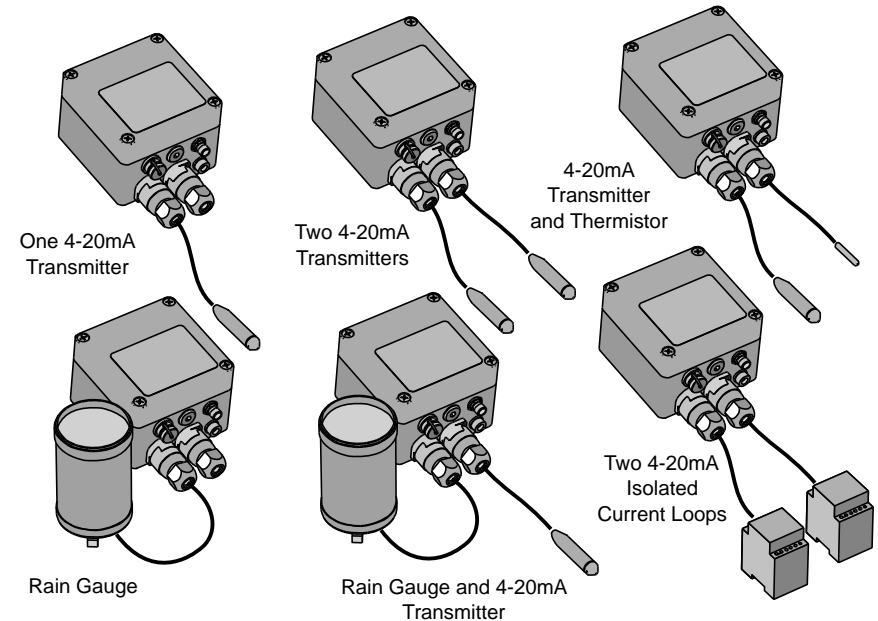
Continous measurement and alarms from:

- River level
- Open channel flow
- Discharge overflow
- Groundwater level
- Supply meter consumption
- Wind speed
- Rainfall and weather
- Tank fluid level
- Water quality
- Temperature
- Pump status
- Barometric pressure.

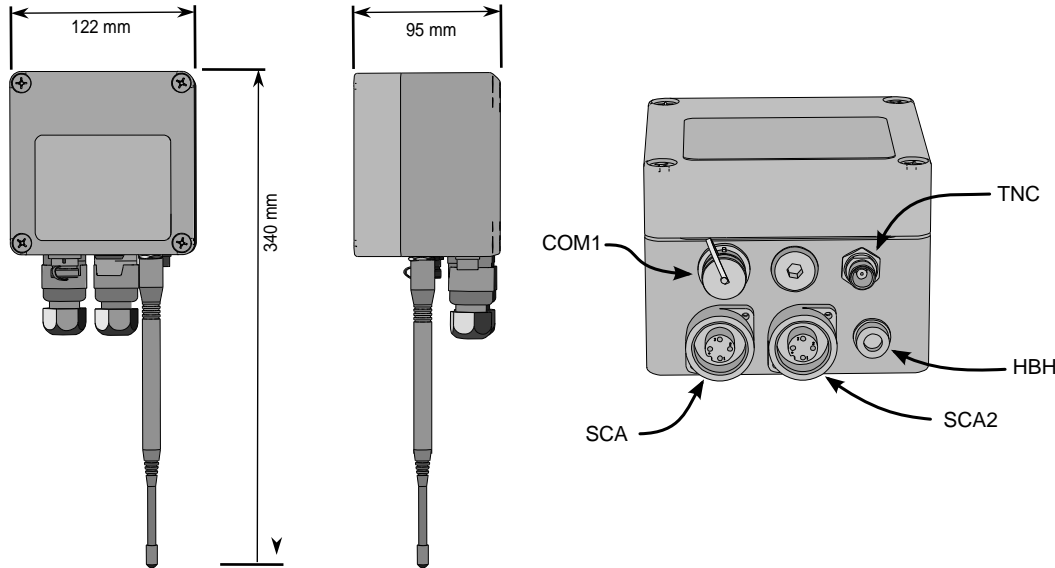
Applications

As standard the Hawk RT supports all the sensor configurations illustrated below.

In addition a range of Application Cards and an alternative Sensor Connector support a wide selection of custom applications.



Hawk RT - GPRS / GSM Data Logger



Accuracy and storage

Analog accuracy 0.1% full scale. Flash memory data storage to ensure reliability. Total storage capacity 29760 16-bit readings. Oldest data is overwritten when logger is full so the most recent data is always stored.

Logging strategies

Strategies:

- Periodic logging
- Frequency pulse rate count
- Event logging - pulse timing.

User-specified from ten seconds to four hours. Data is stored at 'cardinal points' as per specified interval (e.g. 15 minutes logging at 00:00, 00:15, 00:30, 00:45 etc).

Battery

Field replaceable high capacity Lithium battery pack is fitted internally.

Alarm features

- Up to four set points per channel (each high, low or return to normal), hysteresis and filtering.
- Rainfall intensity alarm with configurable integration and suppression periods.
- Sampler control relay option.
- Low battery alarm.
- Alarm dial-out supports two alarm handlers (each with two numbers; multiple retries per number). Direct SMS from logger on alarms.

Communications

Local RS232 communications are built-in and remote data collection is achieved via GPRS / GSM using automatic daily check-in with data transfer. Modem time switching for polled operation also supported.

Internal GPRS / GSM / PCN quad band modem designed for low-power battery operation. Battery life will depend on sensor type and call frequency monitoring alarm dial-outs. For many applications e.g. rainfall recording, the Lithium cells can last up to five years. Easy SIM installation. Logger only, non-modem version available.

DNP3 and Modbus protocols supported as standard.

Rugged protection

The Hawk RT is housed in a rugged aluminium enclosure which when the serial port connectors / caps are secured properly is rated to IP67. This ensures maximum protection against hostile environmental hazards such as water, dirt, dust and moisture.

Software

Hawk RT configuration and manual data collection is via Harvest for Windows platforms or PocketHarvest for Pocket PC, including the rugged Archer hand-held.

IDQTel and the FEP6 provide fully automatic data collection and alarm forwarding.

Web-based data collection via www.timeview.net allows you to view remote data on a secure website.

Options

- Enclosure mounted hi-gain or external antenna
- Breather for level sensors
- Sampler trigger cable
- Custom application cards and sensor connector
- Wall/pole bracket as shown here

