

ReDAC GPRS DataLogger

Real-Time Remote Data Acquisition



ReDAC GPRS Data-logger is an industrial grade appliance that collects data from industrial equipment and streams it via GPRS in real-time to a central server.

Real-Time

In many situations, data collected in the field may be required for immediate analysis, and there may be many remote sites to monitor. For example, noise monitoring, water quality monitoring, alarm monitoring etc.

Cost Effective Transmission

ReDAC taps on the popularity of GPRS as a cost effective channel to stream real-time data to the central server. Unlike GSM or PSTN dial-out, which is charged by the duration of the connection, GPRS is charged by the data packets. Therefore ReDAC is able to be on-line all the time.

Reliable

ReDAC-GPRS has many key features that makes it extremely reliable even when the GPRS network may not be 100% stable.

It is able to detect issues of GPRS and reconnect to the server. At the same time, it has the capability to buffer data while the GPRS is unavailable and stream it back to the server once connection is re-established. This ensures data is never lost*.

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ReDAC GPRS Data Specifications

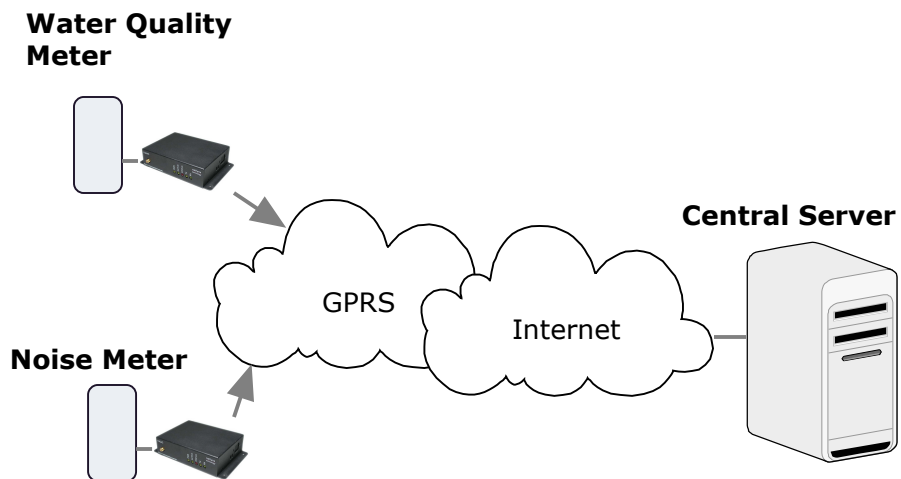
Typical Usage:

Metering
 M2M communication
 Telemetry
 Security
 Remote Monitoring

Key Features:

Real-Time streaming
 24 hour buffering
 Auto-Reconnection

General	
Frequency	Dual Band GSM 900 / 1800 MHz
Output Power	Class 4 (+33 dBm +/-2dB) GSM 900 Class 1 (+30 dBm +/-2dB) GSM 1800
Ambient Operating Temperature	-20 to + 55 degree Celsius
GSM / GPRS features	
Data Transfer	GPRS Multislot class 10 Full PBCCH support Mobile Station Class B Coding Scheme 1 - 4 PPP-Stack for GPRS data transfer
SIM Interface	Supported SIM cards: 2V, 1.8 B
Antenna	1 meter magnetic base antenna
Others	
Power	12 VDC - 1A
Clock	Time-Sync with Server
Collection Interval	minimum 1 minute polling interval
Buffering*	12 hour (assuming data packet size of 100 bytes at 5 minute interval)
Interfaces	
Equipment Interface	9 PIN RS232 Serial / RS422 (configurable)
Indicators	3 LED status indicators



Typical Configuration of a Data Collection System