



# Hydro RT Rainfall Data Logger GSM/GPRS Network Enabled



## Hydro RT GSM/GPRS Rainfall Data Logger

In today's rapidly changing climates, rainfall monitoring is becoming one of the most important issues for all countries. To monitor levels in order to maximise capture, for distribution, planning and for preventing flood damage, early warning systems are an essential tool for the hydrologist.

The Casella Hydro RT telemetry logger is the most advanced rainfall logging system from Casella, world leaders in manufacture and supply of global meteorological and hydrological monitoring equipment. It allows users to collect rainfall data remotely, and the unit will alert users if any of the pre-set alarm conditions are exceeded, thereby allowing appropriate control measures to be implemented.

The unit incorporates the latest GSM/GPRS technology for remote data collection from single stations or large networks, thereby also offering the user valuable cost savings in expensive visits to site for manual data collection.



### Features:

- Remote collection of Data via GSM/GPRS
- Ideal for single units or country wide rainfall networks
- Rugged design with sealed connectors
- Over 1 year autonomy from battery pack
- Configurable rainfall event and intensity alarms
- High quality Casella TBRG
- Alarms via SMS
- Harvest Software included
- Alarms supervisors automatically
- IDQTel software for auto polling of data
- Data exportable into Casella Win RLS Software



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

Rugged sealed connectors allow installation without opening the unit. The Hydro unit can be pole or wall mounted adjacent to a Casella tipping bucket rain gauge.

Resolutions of 0.1, 0.2 & 0.5mm can be ordered.

Additional sensors including water level can also be utilised and data logged via the Hydro. (Contact sales office for further details)



## Harvest Software

### (Included)

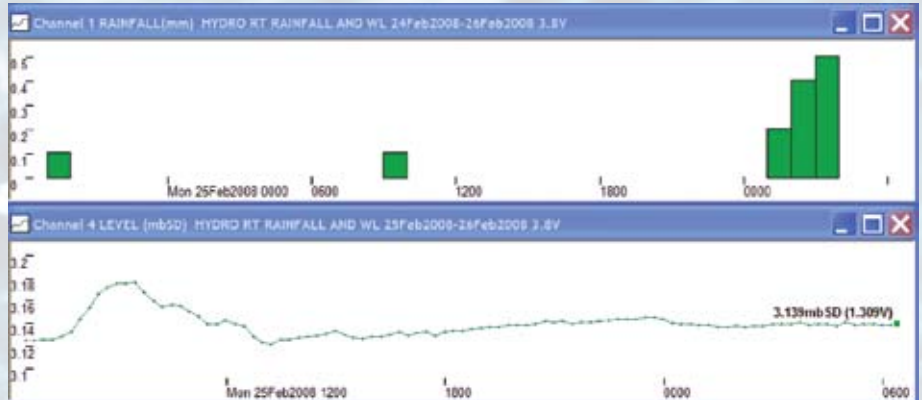
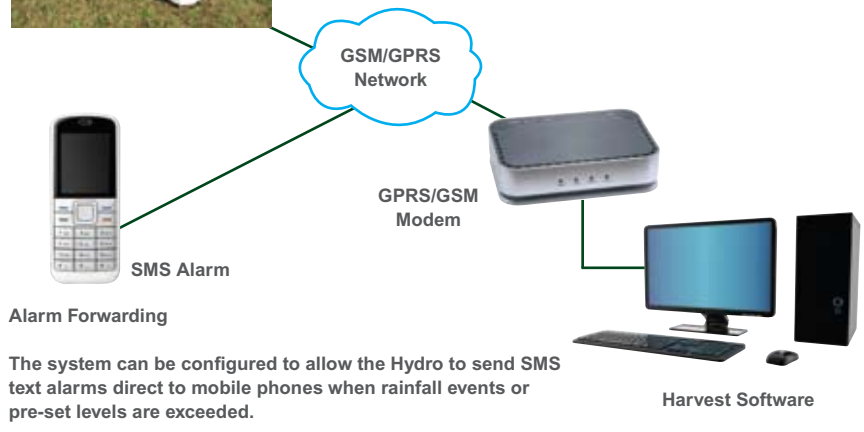
This software is included with the Hydro unit and allows the unit to be configured, alarms and intensity levels set in the logger, and to allow the user to manually request data via modem remotely. These downloads take place during up to four pre-set time windows during the day if required. Alarms can also be set by the user and once set, are monitored in the data logger every 2 minutes once limits have been exceeded, the internal modem will call up to four cell phone numbers to alert the user via SMS service. The user can then request data from the logger to ascertain the conditions.

### Harvest: Data Collection Software



#### Data Collection

Harvest software allows the user to access Hydro loggers via GSM/GPRS modem, allows configuration of units, downloading of data for analysis and graphing. Ideal for individual units and small networks or groups of instruments.



## IDQTel Software (Option)

### Network Users

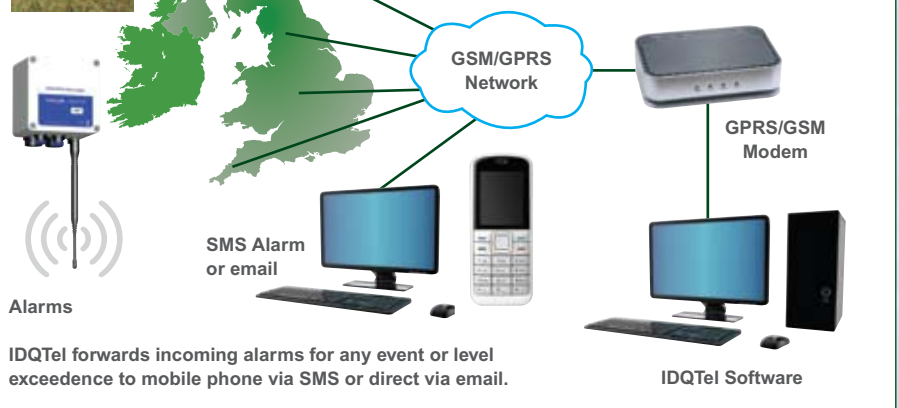
IDQTel is a software application designed to forward incoming alarms from the Casella Hydro RT rainfall logging system outstations to mobile phones and email addresses. The software can also be used to automatically poll these outstations. IDQTel loads during Windows start-up and runs as a background process, displaying a warning icon upon receipt of an alarm. The Windows interface displays incoming alarms, forwarding destinations, polling status and program settings. IDQTel is quick and easy to install, straightforward, user-friendly and scalable to virtually any size of telemetry network.

### IDQTel Network Software



#### Data Collection

IDQTel allows continuous automatic polling of entire groups and networks of Hydro outstations can be expanded to local, national or international networks.



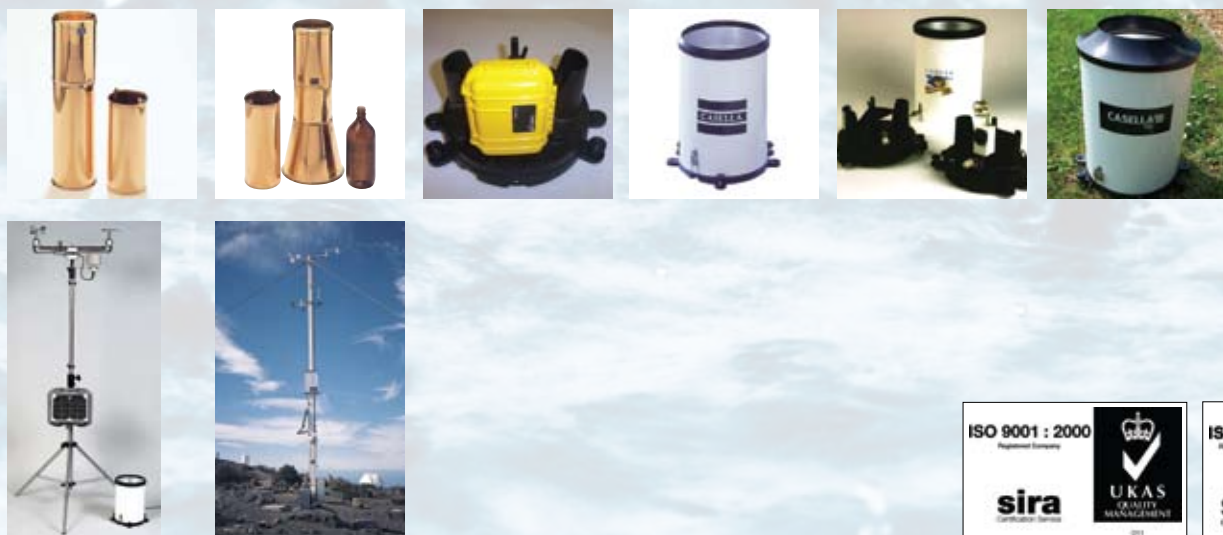
## Technical Specifications

Accuracy & Storage:	Analogue accuracy 0.1% of full scale. Permanent record mode logging operation ensures that data is always collected reliably. 29760 16-bit readings total for up to 8 channels. Barrel logger concept.
Logging:	User specified from ten seconds to four hours.
Modem:	Internal GSM / PCN quad band modem designed for low-power battery operation. For rainfall recording, the Lithium cells can last up to five years. Easy SIM installation.
Software:	Casella Harvest software for manual polling and data recovery is provided as standard. Casella IDQTel Software for email forwarding and automatic polling of gauges is available as extra purchase (includes PC end Modem). RLS software is for use with Casella non modem based RLS and can also analyse data from Hydro logger units.
TBRG Accuracy:	+/- 1% at calibration flow rate. Units supplied with traceable certificate.
Applicable Standard:	BS7843-3.2 :2005.
Operating Temperature:	-40 to +70°C
Operating Humidity:	0-100%

## Ordering Information

Hydro RT Logger Unit:	103815D Complete with battery, manual data download cable, 3M cable for TBRG, mounting plate, Casella Harvest software.
Select Aerial Required:	Low profile aerial for good reception areas: CMC55 High Gain Aerial GSM for weaker signal areas: CMC56 High Gain Aerial PCN for weaker signal areas: CMC57
Select Gauge Required:	0.1mm TBRG: 102471E 0.2mm TBRG: 100000E 0.5mm TBRG: 100573E
Breather Option:	(For use with pressure level sensor): CMC60
Lithium Battery Pack:	CMC63
Casella IDQTel Software (includes modem for PC):	CMC67
RLS Software:	125020A
Level Sensor:	Contact Casella

## Other rainfall and meteorological products available:



### Casella Measurement

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### Casella China (中国)

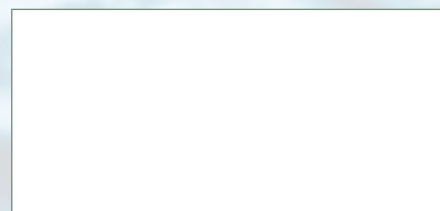
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SM08004 April 2008