



DATACALL GATEWAY RTU





Datacall Gateway Unit

Datacall Server

Graphical User Interface



The **Datacall Telemetry System** offers a cost effective means to monitor and control remote assets using mobile networks and the internet. This powerful and flexible product is easy to set up and simple to use.

Datacall is a fully integrated end to end solution beginning with the **Datacall Gateway** installed at a remote site. This unit performs data logging, monitoring and control functions on any GSM/3G mobile network.

A mobile can receive alerts and respond directly to the **Datacall Gateway** via SMS.

Data is simultaneously transmitted to the **Datacall Server** which manages your systems.

The customer can monitor, control and analyse the data from the Datacall Gateway Unit through the **Graphical User Interface** (GUI) on the web site.

Datacall is a fully integrated end to end solution.

Agriculture

Aquaculture

Horticulture

Flow analysis

Soil moisture

Temperature

Fruit ripeness

Fire detection

GPS positioning

Frost monitoring

Localised weather

Measure pH levels

Pod feeder control

Emergency services

Water Temperature

Salinity measurement

Pivot irrigation system

Industrial gas detection

Personal security systems

Wildfire prevention

The Datacall Telemetry System can be integrated with virtually any remote system, and the custom designed interface is flexible to change with the application. The award winning Datacall Gateway has advanced features to ensure that it will alert you to tampering, malfunction and low power.

The Datacall Telemetry System ensures you that you are aware of what is happening at the remote site, and can know exactly where your Datacall device is with the unique GPS tracking code embedded into the hardware.

Integrated

Datacall Gateway combines data collection, monitoring and positioning in a single box solution and communicates alerts and control functions through SMS or mobile internet. In the Datacall package, you get all you need to control your remote site.

Countless Devices

Integrate Datacall Gateway with infinite types of sensors through the I-Wire™ bus. With sensor devices operating on the I-Wire™ bus, your monitoring applications are endless. Our I-Wire™ bus connection allows multiple sensor devices to be connected to the Gateway on one input.

With 8 digital and 4 analogue inputs, 4 digital outputs and an integrated GPS receiver, many 2 wire devices can also be connected onto the Gateway for even more applications. This allows you to fully integrate your remote site so that you have as much information available about its status.

Flexible and Powerful

Datacall Gateway enables you to control and monitor your assets through your mobile network. With onboard computer processing power and memory to save your data, Datacall Gateway is always working for you. With an internal self check mechanism, the system is always monitoring its health and integrity and can reset itself if required.

The Datacall Telemetry System: award winning, integrated, leading edge technology, 3G mobile compatible - providing you all you need to monitor and control into the future.

For further information visit:

www.datacall.net.au





Datacall supports our clients with a range of service and support packages that can suit your needs. They range from **Standard** internet service and support up to our **Deluxe** package providing you with advanced graphical and data tools via the web based graphical user interface, extended warranty and quick response emergency support.

Datacall Gateway RTU Specifications

Internal

Processor:	32-bit 200Mhz ARM9
Volatile Memory:	32MB SDRAM
Non-Volatile Memory:	128MB Flash
Operating System:	Linux 2.6

Communications

Wireless:	850/1900/2100 MHz 3G - UMTS/HSDPA (NextG™ Compatible) 850/900/1800/1900 MHz 2G - GSM/GPRS/EDGE
Wired:	100Mbps Ethernet
Protocols:	SMS, TCP/IP, PPP, HTTP, M2MXML & MODBUS
Antenna Connectors:	
Primary:	SMA for 3G/GSM
Secondary:	Receive diversity 3G 850/2100 or GPS Antenna

Inputs and Outputs

Digital Inputs:	8 (4 with pulse counter)
Digital Outputs:	4 transistor outputs (100mA max)
Analogue Inputs:	4 x 10-bit (0-5 V or 4-20 mA)
Serial Port:	RS-232
Other:	1-Wire™ Bus, USB Host
Location:	integrated GPS receiver

Power

Power Supply:	8-28V DC
Power Consumption:	100mA average (Imax 2A)
Fuse:	M205 5A Fast Acting

Dimensions:	150 x 105 x 40 mm
Mounting:	Panel mount or DIN rail
Weight:	500g



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