



# GPRS MiniMet Communications

Skye Instruments have been specialising in Scientific Instruments since 1983. We manufacture a range of Metrological, Light Radiation and Plant Sensors for a wide range of research and industry professionals. All are designed, manufactured and calibrated to the highest standards, and where necessary, instruments are supplied with a fully traceable Calibration Certificate.

Our GPRS Communication System replaces our now obsolete GSM system that we have been using on our MiniMet AWS for many years. Adding the GPRS to your MiniMet AWS allows you to:

- Automatic transmission of weather data from your MiniMet every minute**
- Data is sent over the GPRS network by ftp to any webserver (customer's own server or the Skye server)**
- Data accessible via any web browser and a customer login**
- Optional 'Data Plus Service' (see below)**
- Accessible to any number of colleagues**
- Secure site for your data when the Skye server is used**

We use a quad band GPRS modem, control electronics and a solar panel regulator, all housed in a waterproof enclosure. All mast mounting hardware and GPRS aerial is supplied, along with a 30 watt solar panel to power the system continually.

The GPRS System requires an active GPRS SIM card (PAYG or monthly contract) with 100MB of monthly data allowance with any 2G network provider. The GPRS modem will need to be programmed with the APN user name and password of the mobile operator. This can be undertaken by Skye if required.



## GPRS SPECIFICATIONS

**Housing** - Polycarbonate with clear lid sealed to IP 67 Pole mounted. 230 x 140 x 95 mm, approx. 1.5 kg.

**Power Supply** - Nominal 12volts derived from rechargeable 12v battery - 38AH, sealed lead acid type. Push button indication of supply voltage.

**Solar Power/Panel** - GPRS has a built in regulator for solar power battery charging. A 30 Watt Solar Panel is used in conjunction with a sealed Lead Acid Battery. A rain shield to protect connections is provided if the system is supplied with a sealed lead acid battery.

**Connections** - The unit is supplied wired and ready for use with a DataHog or MiniMet. Sealed cable glands provide entry for connections to the antenna and power supply.

**Antenna** - Standard systems are supplied with a 0.7m. fibreglass tuned antenna.

**GPRS Modem** - The Data Modem (Cinterion BGS2T) has been programmed with firmware to create a dedicated Skye GPRS unit called DHLCL.

**GPRS SIM Service** - SIM cards can either be sourced by the customer or supplied by Skye. We would recommend that they are supplied by Skye, as the SIM cards we use are 'roaming', which means they will automatically lock onto the strongest signal that is available at your chosen site. If the signal drops too low for data transfer, then the modem will re-set and lock onto the next strongest signal.

## 'DATAPLUS' SERVICE

[www.minimet.co.uk](http://www.minimet.co.uk)

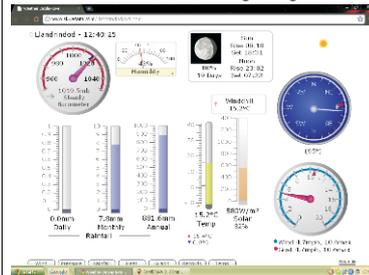
Live, Real-time Display of the Weather

Minimum and maximum records

Visual representation of the weather by graphs and charts for 'live', 24 hrs, 7 days and 31 days

Alarm function. Alerts sent by email or text, ideal for receiving warnings when particular weather parameters are met

Data files emailed every day



## ORDERING INFORMATION

### GPRS

Modem, electronics and solar panel regulator. All enclosed within a waterproof housing. Includes aerial & fixings.

### GPRS/SD

As above but with added SD storage. Includes SD card.

### GPRS 7

30 watt Solar Panel, mounting bracket & fixings

### BATT/12V

12 volt battery, protective cover and fixings

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