

# MINIMET

## GSM Link

-  **24hr access to your meteorological data direct from your home or office**
-  **Access from almost any country**
-  **MiniMet in any country with a suitable GSM Network**
-  **A variety of low cost low consumption options**

You probably already use a GSM digital network when you pick up your mobile phone. The new GSM link from Skye uses the same Vodafone digital mobile 'phone network in the UK to permit the control and offloading data from MiniMet weather stations and DataHog loggers.

Operation is very simple. A modem is probably already installed in your PC for use with Email and the Internet (the vast majority of makes are compatible) and this is used by Skye software to call up your MiniMet. A single click of the mouse will initiate the call to your weather station.

Quite automatically your call is routed to the nearest GSM transmitter to your remote MiniMet or DataHog. Once the call is connected you can use all the functions of your weather station as though you were sitting next to it - offload data, clear memory, alter setup parameters etc. GSM networks in a variety of countries are suitable. Remember the remote weather station only needs a GSM network, so the



MiniMet may be, for example, in the south of Spain whilst you 'talk' with it from your office in sunny Manchester.

Just as the Skye MiniMet and DataHog have been designed to operate on minimum current for long periods in sites with only a battery supply so has the GSM Link. Unfortunately, it is a physical fact that to get a radio signal through the air (all mobile phones work like this) requires rather more power than to run the MiniMet or DataHog itself. In most applications enough power is available from a small solar panel for self-contained 'recharge free' operation. The GSM link has electronics built in to protect the

system from low power and power loss situations.

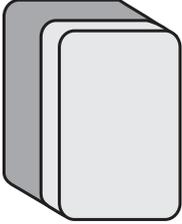
If a solar panel is not appropriate and mains power is not available, then operation times are maximised by use of either a clock or telephone 'switch on' device for the modem within the Skye GSM link.

The Clock will switch on the GSM link for a set period each day.

With the telephone 'switch on' system, the user dials a pager service number (where available in the country concerned) which in turn calls electronics in the GSM link, switching on the modem for a user-selected period.



## SPECIFICATIONS

Electronics Housing	Power Supply	Solar Power	Battery only operation	Connections
<p>Polycarbonate with clear lid sealed to IP 67</p> <p>Pole mounted 230 x 140 x 95 mm approx. 1..5 kg</p>  <p>A rain shield to protect connections is provided if the system is supplied with a sealed lead acid battery</p>	<p>Nominal 12volts. Derived from mains supply or rechargeable battery</p> <p>Battery supplied by (Skye) is a 12 volt 38AH Sealed Lead Acid type</p> <p>See Solar Power section for 'recharge free' operation</p> <p>Internal 'system safety' NiCad battery. Calls and SIM operations will be terminated safely in event of power loss</p> <p>Push button indication of supply voltage</p>	<p>GSM Link has a built in regulator for solar power battery charging. If a suitably sized panel is used then 'recharge free' operation is possible. 10, 20 or 30 Watt Solar Panel options are used in conjunction with a sealed Lead Acid Battery. Solar Panel size required will depend on installation location and typical usage. In UK a typical Installation would use a 10 watt panel and pager. In Europe and extreme northerly or southerly locations or those with heavy usage will require the 20 or 30 watt panel. Please contact Skye for further advice</p>	<p>Some installations by virtue of low visual impact requirements or cost constraints may use any 12 volt battery</p> <p>Up to 100 or more days is possible with the telephone 'switch on' option and use every 2-3 days</p> <p>Remember that the GSM link provides power for the MiniMet or DataHog</p>	<p>The unit is supplied wired and ready for use with a DataHog or MiniMet</p> <p>Sealed cable glands provide entry for connections to antenna, battery or power supply, MiniMet data lead and solar panel where used</p>
Antennas	Telephone 'switch on' system (optional)	Modem Module Specifications	GSM Service	
<p>Standard systems are supplied with a 0.7m. fibre-glass tuned antenna</p> <p>For low impact installations a miniaturised ground plane antenna can be used</p> <p>Low cost indoor antenna may suit some applications</p>	<p>Country dependent</p> <p>UK - system supplied employs electronics that receive signals from the 'BT' service</p> <p>User set 'GSM active' period of 15, 30 and 60 minutes</p>	<p>GSM900 + RLP compatible</p> <p>V24 control/data interface to match with MiniMet and DataHog series</p> <p>Supply voltage 12 volts nominal</p> <p>Automatic call setup/closedown</p> <p>Current device fitted to Skye GSM Link is the Siemens TC35</p>	<p>Country dependent.</p> <p>U.K. - Vodafone recommended</p> <p>Typical installation would have a low cost voice contract with outgoing call barring</p> <p>Options are available for institutions who do not want direct debit contracts</p> <p>For supply and service in other countries please contact Skye</p>	

## ORDERING INFORMATION

### GSM Options

GSM	GSM Housing unit, includes Modem controller, pole mount, aerial & WizzCom dial up software.
TC35	GSM Cellular Modem (requires airtime contract with DATA facility on a 900mHz network)
BATT/12V	12 volt battery to power GSM System
GSM8	10 watt solar panel & battery to recharge 12v battery
GSM6	20 watt solar panel & battery to recharge 12v battery
GSM7	30 watt solar panel & battery to recharge 12v battery
PAGER	Telephone switch on unit for GSM System (available in UK only)

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