



MINIMET

Problems contacting the GSM weather station

If you are having trouble contacting your GSM remote weather station, please follow these tips to identify the problem

If this is a new installation or removal to a new site and you have not yet made any successful communication with the GSM station, please first check that you are dialling up the station with a good quality modem. Internal modems which are factory fitted within new PCs are often budget 'software' modems, OK for home and internet use. For reliable GSM connections and data transfer we recommend a Hayes compatible 'hardware' modem. Secondly, if fitted, please check that the Pager 'wake up' unit is operational at the installation site as coverage is not guaranteed everywhere. To do this, simply dial up the pager number whilst you are at the installation site, after about 30 seconds the Pager will emit a buzzing sound if it is receiving messages.

1. LISTEN TO THE NETWORK MESSAGES

If your PC is having trouble making the connection, dial the numbers manually using a handset and listen to the messages given by the Network, this is often a valuable clue.

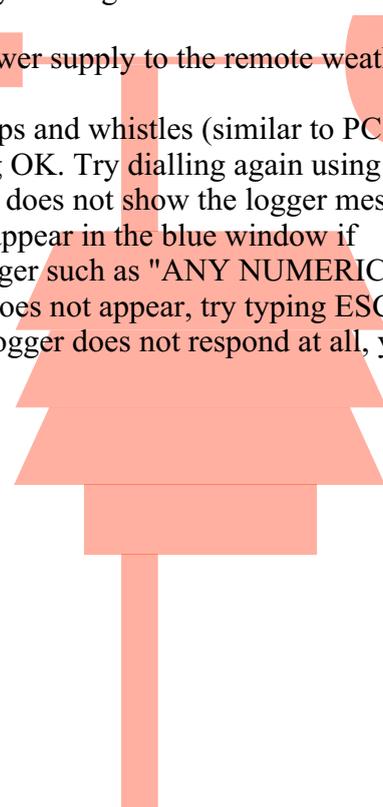
A) The Network messages may say that the network is busy, in which case simply try again at another time.

B) If the message says that the phone is switched off, this suggests that the remote GSM modem is not powered up. If your system uses a clock alarm to 'wake up' the remote station, check that you are dialling up within the alarm period or check the remote clock settings.

C) If the system uses a Pager to 'wake up', check your PC is set to automatically dial the Pager number before the GSM phone number. In busy periods the Pager network may be congested and it may take a little longer than usual for the Pager to receive its message try dialling the GSM Phone number again after a minute or so.

D) If the message persists that the phone is switched off, the power supply to the remote weather station system should be checked.

E) If there is no Network message and you hear a series of beeps and whistles (similar to PC internet connection sounds), then the remote modem is active and answering OK. Try dialling again using the PC, use SkyeLynx Standard, Deluxe or WizzCom (not LynxAuto as this does not show the logger messages on screen). When the modem connects a CONNECT message will appear in the blue window if successful. In normal operation you will see a message from the logger such as "ANY NUMERIC KEY TO WAKE UP (0-9)" appearing every 10 seconds. If this message does not appear, try typing ESCAPE 3 times slowly, which may bring the logger back to log mode. If the logger does not respond at all, you will need to check the instrument itself out at the installation site.



Problems contacting the GSM weather station (cont)

2. CHECK POWER SUPPLY

- A) Check the 12V battery is fully charged and lights up the green LEDs when the Battery Test button is pushed located at the base of the GSM Housing box).
- B) Check the cables from the 12V battery and the solar panel (if fitted) which enter the GSM Housing box are not damaged
- C) Remove the lid of the GSM Housing box and check that all the connections to the orange terminal block near the bottom are correct and tight, and that the orange connector is firmly home.

3. CHECK LOGGER

- A) Is the datalogger making a small 'beep' every 10 seconds? If yes, the logger is operational and in logging mode. If no, there has been break in the power supply to the logger.
- B) Check the RS232 cable for damage this runs from the GSM Housing box and connects to the MiniMet or DataHog logger at the RS232 socket. Check the plug is firmly (but not overtight) connected into the socket.
- C) If the logger is not beeping and the RS232 cable seems intact, remove the base from the logger to expose the battery compartment do this in dry weather only if possible. There are 2 small black buttons at one side of the battery compartment. Press the one marked PSU RESET, you may hear a faint click. Then press momentarily the button marked RESET, this one does not click. After about 30 seconds the logger should start beeping at regular intervals again. If no beeps are heard, replace the 6 C cell (back up) batteries and press both black buttons as above. Replace the logger base taking care that the O ring seal is not obstructed.

4. RESET GSM SYSTEM

If the logger is beeping, the cables and power supply is OK, the GSM modem and its controller may require a reset.

- A) Remove the lid off the GSM Housing box.
- B) Check that the red LED marked 'Modem Active when lit' is not lit this is located in the bottom right hand side of the box. If the LED is on, switch it off by pressing the red 'Pager Test Cancel' button in the centre of the box (if you do not have a Pager installed this may not be labelled, but there will be a blue and red pair of buttons in the centre of the box).
- C) Only when the red LED is off, pull out the orange terminal connector from its holder. Wait 30 seconds and then replace.
- D) Replace the lid on the box taking care that the O ring seal is not obstructed and try the system again.

5. MANUALLY SWITCH POWER TO THE GSM SYSTEM

It is sometimes convenient to manually switch on power to the GSM modem system for easy checking when on site. This method over-rides the Pager system.

- A) Remove the lid off the GSM Housing box.
- B) Press the blue 'Pager Test On' button in the centre of the box (if you do not have a Pager installed this may not be labelled, but there will be a blue and red pair of buttons in the centre of the box). The power to the GSM modem will remain on for the time period set by the blue jumpers located on the right hand side of the box see the label adjacent for details.
- C) When finished testing the system, you can allow the power to go off at the end of the 'Pager Test' time period, or simply switch it off manually by pressing the red 'Pager Test Cancel' button in the centre of the box.
- D) Replace the lid on the box taking care that the O ring seal is not obstructed.

If none of the above tips are successful in reinstating the system, please contact Skye with full details and observations on the above tests and we will advise how best to proceed.

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