

### How to obtain a SIM card and get it data enabled and GSM/CDMA configuration



Once you have purchased your GSM modem from Grant Instruments you will need to obtain a suitable SIM card.

The SIM card will be required to be on a contract with a service provider, as suitable data services are not supported on pay as you go (PAYG).

Some networks support different types of **data** connections.

**Orange** supports a network called “High Speed Circuit Switched Data” or HSCSD.

The Grant Instruments range of GSM devices does not support HSCSD signalling. For this reason HSCSD numbers (Orange Network) **will not work** with the Grant GSM modem.



In the UK, there are 5 main GSM service providers:

1. **Vodafone**
2. **Orange**
3. **O2**
4. **T-Mobile**
5. **Virgin Mobile**

**Note:** Grant Instruments range of GSM products should work with most of these networks (except Orange) for GSM-connection; Grant has tested and would recommend **O2 and Vodafone**.



Once you have obtained your SIM card if it is not already **data enabled** or “**Data** only” you will need to get a data number. This is an additional number to the voice number.

A **data** number is important when dialling in to a GSM device, if you dial in to the voice number of a SIM you will not be able to connect to the logger.

When you Contact your respective service provider they are sure to request the following:

- **1 Circuit switched data number (modem type connection)**
- **9600bps**
- **8 data bits, No Parity bits, 1 Stop Bit**
- **Non-Transparency enabled (also know as error corrected or “RLP”)**

Once you have done this, the number can take up to 24 hours before it is **enabled** on your SIM. The Service provider may also ask you to switch the GSM unit off and back on to complete the changes.

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### **GSM/CDMA Configuration required to operate with the Grant Data loggers**

Port Speed: 9600bps  
Format: 8N1  
Handshake: Off  
DTR: Ignore  
Auto Answer: On  
Mode: RLP (Non Transparent, **GSM Only**)  
Result codes: No  
Echo: Off

**Note:** Modems that use **CDMA technology** only operate using TAPI commands.

For information on setting up the SquirrelView software to contact the GSM modem, refer to the [GSM modem Optimisation and Connection](#) document on our website or the Resource CD.