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.

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.

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