Installation manual

Mains powered LDC

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Before installing an LDC, Orsis advise carrying out an LDC GPRS connection check.

The LDC must be installed prior to any other equipment being installed – otherwise an RF connection from the meter cannot be guaranteed.
This LDC is main powered and is normally wired via a fused spur.
After connecting the LDC to the mains power supply, the LDC PWR LED will illuminate and the display will show the following information (this may take up to five minutes):

Connect the antenna terminations to the LDC – left side is RF, right side is GPRS.
There is a selection of antennas which may be fitted depending upon signal reception and fitting space. The small angled antenna should be fitted as first option.

At this point the LDC is connected and working

The LDC will now start looking for upgrades - you may see sending, receiving or upgrading. This is normal - during this time the LDC will turn itself on and off.
The display can show a number of scenarios after 5 minutes.

"G: DISCONN" LDC is disconnected to GPRS and COMMUNICATION SERVER

1. The GPRS signal may be low - fit a high gain antenna and power down the LDC. After 30 seconds power up the LDC
2. There is no network available - swap the SIM card to another network (EE, O2 or Vodafone) **record SIM number**
3. Try to move the position of the LDC/antenna

"G: DIALUP" LDC is trying to connect to the communication server

1. The GPRS signal may be low - fit a high gain antenna and power down the LDC. After 30 seconds power up the LDC
2. There is no network available - swap the SIM card to another network (EE, O2 or Vodafone) **record SIM number**
3. Try to move the position of the LDC/antenna

"G: CONN" LDC is connected to COMMUNICATION SERVER and working

"**READY"** This means LDC is fully operational and has communicated

Local Data Concentrator - Mains Powered

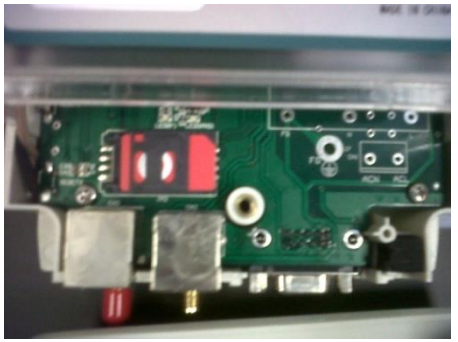
Part	Product Description	Connection requirements	Description	Notes
LDC	Local Data Concentrator	Mains powered	Connect to 240V fused spur supply	The LDC must be installed first on a multi-site installation where RF is being utilised. For areas that require multiple RF installation and multiple LDC's, best practice is to identify "central" LDC locations and complete these installations first.
		RF and GPRS antenna	Connect RF antenna to outer connection point on bottom LHS of LDC and connect GPRS antenna to the inner connection point on LHS of LDC	
		SIM card	Insert activated SIM into SIM card holder	SIM must be activated GPRS Signal indicator will be displayed between 1 and 30 to indicate connectivity to GPRS network. Between 1 and 10 indicates a weak signal and requires a high gain antenna, any signal above 10 is satisfactory but the higher the better.

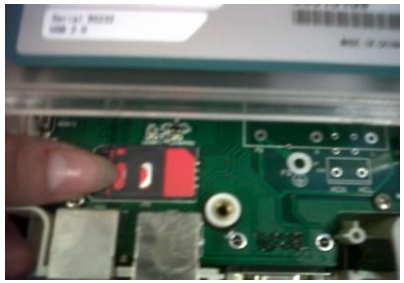
Changing a SIM card

This is to be done only on instruction from Orsis

Unscrew terminal cover of the front of the LDC.

Remove cover





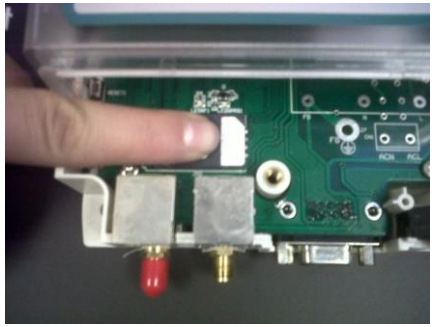
Remove the SIM card from the holder by sliding (to the left) the securing bar.

Insert the new SIM card

Lift up the SIM holder

Lower the SIM holder.

Remove the SIM card



Re-secure the SIM by moving the SIM bar (to the right)

Re-fit cover.

Please phone Orsis Support Team on 01423 537088 to check and confirm connection.