

INTRODUCTION

The Memcom GSM Terminal provides the interface between the Memcom Lift Emergency telephone and the mobile telephone network. This guide assumes that the Memcom has already been installed. The installer/customer needs to provide a suitable SIM card to activate.

CONNECTIONS

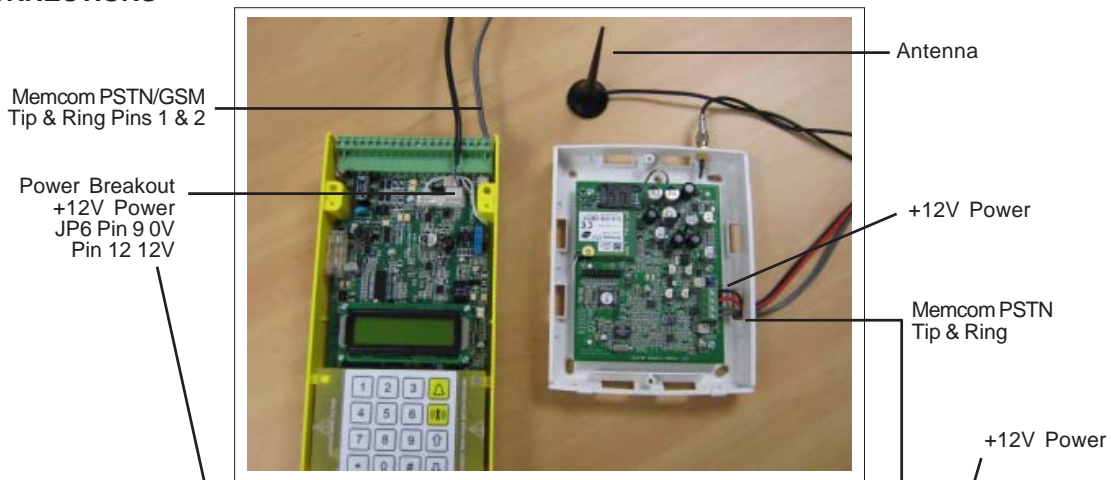


Fig 1: GSM/Memcom Connections

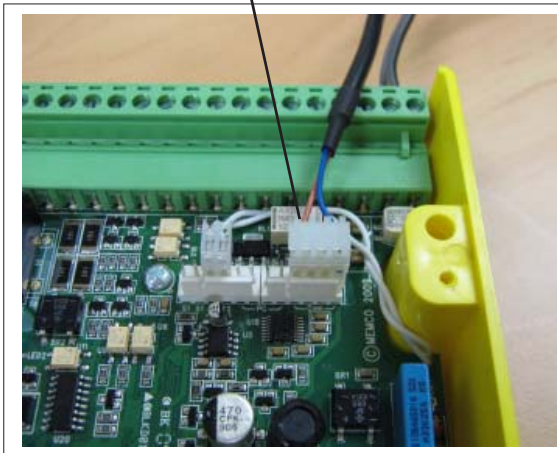


Fig 2: Memcom Connections

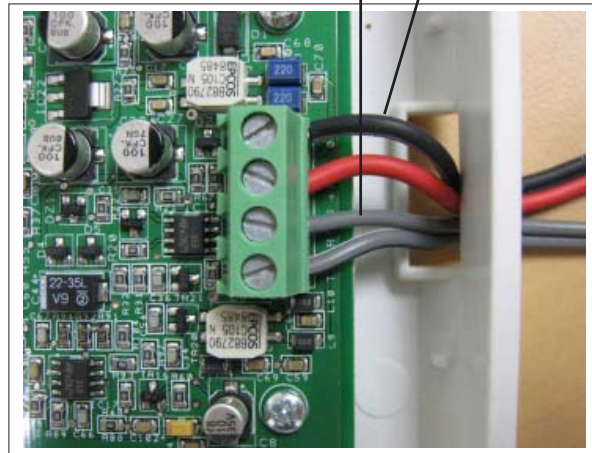


Fig 3: GSM Terminal Block

- The GSM terminal would normally be installed in the lift motor room or lift shaft with the Memcom on top of the lift car or inside the car operator panel. The antenna should be mounted where a good signal can be received; this may require a risk assessment of antenna position.
- The battery-backed +12V supply from the Memcom is available using the power breakout cable provided. The +12V core is sleeved red, the 0V core is sleeved black. This is then connected to the travelling cables to take the power supply to the GSM terminal. The maximum resistance for each core is 1ohm. Use more cores in parallel if it is a very long run and the resistance is higher than 1ohm. **Note:** If a battery-backed +12V power supply is available at the GSM installation point then this may be used instead, a current of 0.5A peak would be required. Note that unless this supply is monitored then the system may not be EN81 compliant.

- The Memcom PSTN/GSM connections on the main terminal block Pins 1 & 2 connect to the TIP and Ring connections on the GSM Terminal block. If these connections are routed through the travelling cable then it is advisable to keep them away from any nearby cores that carry high voltage or high current, as these signals are low level audio and may pick up interference from adjacent cores. The optimum solution is to earth the cores next to the signal wires.

SIM Card

- To operate the GSM Terminal, a SIM card (fitted as Fig 4) is necessary to access a compatible mobile network as below.

Network	Data	Voice
O2	✓	✓
TMobile	✓	✓
Orange	✓	✓
Vodafone	✗	✓



Fig 4: SIM Card Insertion/Removal

Memcom

- The Memcom needs to be set up to operate with the GSM, if it has not been supplied preset for GSM operation. Refer to the Memcom Installation Guide (450 850) and enter the menu mode. Select:-

MENU ITEM		ADD	FUNCTION
26	Hardware Opt	16	Enable GSM
27	Hardware Mon	8	GSM no signal
		16	GSM low signal

- If the SIM card is locked then the 4-digit code to unlock it can be entered at menu item 81 "GSM Sim PIN".

Indicators

- Two LED indicators are visible from the front panel:

UPPER LED	COLOUR	SIGNAL STRENGTH	FLASH RATE	NETWORK STATUS
	Red	Low	Continuous	No connection
	Yellow	Medium	Slow	Connected
	Green	High	Fast	Transmitting
LOWER LED	FLASH RATE	STATUS		
	Continuous	Power On		
	Flashing	Fault or check upper LED transmit status		

System Check

- A text message may be sent to the GSM phone number that contains "GSM STATUS". A message will be returned, the message displays; Memcom ID, Memcom Version, Mains Status, Battery Status, GSM Version, GSM Signal Strength.
- To fully check the system press the alarm call button at the Memcom and ensure that the emergency call was correctly made.
- The current GSM signal level is shown on the Memcom display.

More detailed installation information can be obtained from the "Memcom GSM Terminal Installation Manual" (Part No. 452 851), which is available from the Memco website at: <http://www.memco.co.uk>