



CSL Dualcom is a multi-path device designed to combat the issue of GSM blockers being used by intruders. Intruders who use these blocking devices would normally switch them on (normally on the roof of a building), and then cut the phone line. When the alarm is triggered it cannot send a signal via the phone line, and then sends the signal via the traditional GSM backup. However, the signal will not get out of the building. The traditional GSM unit has no way of knowing that the signal it is transmitting is not going anywhere.

Hall Alarms and Smart Monitoring have two products from the CSL range as below. Both products come supplied with a Sim card already fitted, a High Gain Aerial, & 5 Meters of Cable. The fitted Sim card as supplied is called a 'World Sim' which means it will roam the mobile networks (Vodafone, O2, Meteor) to try and send out a signal. The main advantage to Dualcom is that it is automatically being polled by the monitoring centre. If the system fails for any reason, the control room will know about it.

#### **CSL Dualcom 'G2R' - GPRS & GSM only**

This unit is like a standard GSM back-up unit. In the event of activation, the unit will operate as follows:

1. Try to send the activation via GPRS via all the available mobile networks via the 'World Sim'
2. If not successful, the unit will attempt to send the activation via GSM via all the available mobile networks via the 'World Sim'
3. The G2R unit is polled by the monitoring centre every 6 hours
4. If the G2R unit is unsuccessful in polling 4 times in a row (24 hours), the monitoring centre will be sent an alert to notify the controllers
5. The controllers will then notify the key-holder & installation company that the unit has stopped polling

#### **'G3R' Hourly polling Option**

This unit can be increased to an hourly poll rate (G3R) at an additional cost. If the unit is unsuccessful in polling 4 times in a row over a 24 hour period, the monitoring centre will be sent an alert to notify the controllers.

#### **CSL Dualcom 'International' - GPRS, GSM, & PSTN phone line back-up (IP Optional)**

The 'International' is recommended for Commercial applications. In the event of activation, the unit will operate as follows:

1. Try to send the activation via GPRS via all the available mobile networks via the 'World Sim'
2. If not successful, the unit will attempt to send the activation via GSM via all the available mobile networks via the 'World Sim'
3. The above actions are attempted 5 times every three minutes. If no signal can be sent, the unit will attempt to send the activation via PSTN phone line which is connected
4. The International unit is polled by the monitoring centre **every 3 minutes**
5. If the International unit loses a GPRS & GSM signal (single path failure), the monitoring centre will be sent an alert to notify the controllers within 5 minutes
6. If the International unit loses a PSTN signal (single path failure), the monitoring centre will be sent an alert to notify the controllers within 5 minutes
7. If the International unit loses a GPRS, GSM, and PSTN signal (complete path failure), the monitoring centre will be sent an alert to notify the controllers within 15 minutes
8. The controllers will only then notify the key-holder & installation company that the unit is not polling on any of the communication paths

#### **IP Option**

This International unit can also be adapted to use IP as a communication path instead of PSTN. An optional LAN card is available

which fits to any dualcom unit. This LAN card is available at an additional cost.

**Note: The above protocols can be adapted to suit any particular requirements that may suit the installer or customer.**