

# CG APPLICATIONS

CARLO GAVAZZI



<b>Application Note :</b>	<b>May 9<sup>th</sup> 2007</b>
<b>Market involved :</b>	<b>Telecommunication</b>
<b>Product :</b>	<b>DUA55 &amp; DPA55</b>
<b>Customer :</b>	<b>Telecom Installer Relacom AS</b>
<b>Subject :</b>	<b>Mains Monitoring in Telecommunications applications</b>

## CUSTOMER ISSUE :

If a Base Station is not correctly supplied, the communication (i.e. mobile phone talking) is interrupted.

Every station normally manages a lot of phone talking at the same time and this interruption represents a great loss of money.

To protect sensitive telecommunications equipment against mains disturbances as over and under voltage, mains monitoring systems are needed.

It is also a need for automatic connection of back-up systems in case of mains failures.

## OUR SOLUTION:

Using DUA55CM44 for 1-phase monitoring it's possible to detect incorrect mains voltage.

Using DPA55CM44 for 3-phase monitoring, it's possible to detect incorrect mains voltage, phase sequence and phase loss.

This units allow to stop incorrect power supply when different from the desired one.

## ACHIEVED BENEFITS:

- Costs reduction, avoiding expensive and unpleasant downtime.
- To ensure efficient communication.
- Evident benefits by using multi-voltage devices covering all actual mains voltages.

