Optimum environment temperature control for critical equipment

PROJECT SUMMARY

<table>
<thead>
<tr>
<th>Applications:</th>
<th>Monitoring, heating, air-handling, cooling, fire alarms</th>
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<tbody>
<tr>
<td>Number of Points:</td>
<td>48,000</td>
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<tr>
<td>Number/Type of Building:</td>
<td>3,000 base stations</td>
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<tr>
<td>Network:</td>
<td>Arcnet &amp; Ethernet</td>
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<tr>
<td>Cylon Hardware Installed:</td>
<td>UC16PG-R, UCKRA420</td>
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<tr>
<td>System Integrator:</td>
<td>Electronic &amp; Electrical Industries Corp</td>
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PROJECT OVERVIEW

Saudi Arabia is quickly becoming one of the world’s most advanced, fast-emerging telecommunications markets. Saudi Telecommunications Company (STC) provides fixed network and mobile telecommunications services to approximately 8 million customers in Saudi Arabia. Saudi Telecom is working towards becoming a more customer focussed organisation. They are determined to fulfil the needs, wants and expectations of their customers through offering value for money, quality of service and range of products.

As part of this customer commitment, expansion of the Al Jawal GSM network across the Kingdom of Saudi Arabia is symbolic of a forward thinking attitude in a now publicly quoted STC. This expansion involved the building of 3000 base stations located in remote areas and deserts. The Cylon system is now managing all 3000 base stations throughout the Kingdom.

“Cylon provides Saudi Telecom with the utmost reliability for their growing base station network allowing them to concentrate on their customers” - Simon Najm, General Manager - AL-RUMAIH

SOLUTIONS BENEFITS

The GSM network operates to 99.999% reliability levels and the Cylon solution maintains the environment of the base stations to this exacting standard. Crucial to the operation is the Cylon Unitron System that retains the GSM equipment at the optimum temperature.

There are also power and maintenance savings in that the system operates independently and the main station is only alerted if there is a major problem. The Cylon Unitron system was selected to replace previous systems due to the high degree of flexibility offered by the freely programmable controllers, at a competitive price point for this high volume application.
CYLON SOLUTION

Each of the 3000 installations have been upgraded with critical services such as fire alarm, temperature, humidity and air-conditioning system faults monitored by Cylon Controls Unitron UC16PG-R local controllers coupled with a UCKRA420 display for local access.

Unitron also provides control over the two-air conditioning units with duty cycling and diagnostic testing accessed via the local keypad. A Direct Digital Control System controls each of the base stations, as they are stand-alone operations and information from each is reported through the GSM network to the main control station.

The control system is necessary because it keeps the GSM equipment at ideal operations. A fault signal is immediately sent to alert the main central station if the temperature changes, if the humidity is too high, if the door to the shelter is opened or if there is a fire.

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