**Temperature Controllers**
Cost effective and versatile range of controllers with communications options. P.I.D. control, autotune and heat-cool strategy are all standard features.

**Process Controllers**
Controllers with programmable ramp/soak profiles. Various input, output and communications options are available.

**Solid State Relays**
Solid state relays for use in conjunction with controllers for fast and high frequency load switching.

**Temperature Sensors**
A wide range of thermocouples and RTD’s for many applications. Also available is a range of associated accessories including cables, connectors, glands and thermowells.

### Ordering Information Codes

<table>
<thead>
<tr>
<th>Product</th>
<th>License</th>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>CALgrafix</td>
<td>CALgrafix 1 Client/1 server</td>
<td>CAL products only, no further clients or servers can be added</td>
<td>1002GB000</td>
</tr>
<tr>
<td>CALgrafix Professional</td>
<td>CALgrafix 1 Client/1 server</td>
<td>Additional clients and servers can be added</td>
<td>1003GB000</td>
</tr>
<tr>
<td>CALopc Server</td>
<td>CALopc Server license</td>
<td>Can be used with CALgrafix professional or other OPC compatible client</td>
<td>1004GB000</td>
</tr>
<tr>
<td>CALgrafix Client</td>
<td>Additional CALgrafix client license</td>
<td>For use with professional version</td>
<td>1005GB000</td>
</tr>
</tbody>
</table>

**Supported products**
3300/9300/9400/9500P temperature and process controllers.
Third party compatible device with OPC server support.

**System requirements**
The system requirements are highly dependent on the number of clients and servers connected but also the number of tags being updated and the frequency of update.
As a general requirement, we would recommend a minimum of Pentium 450MHz with 128MB RAM, Windows® 98/ME/NT2000.

Ask for these brochures for our other product ranges

Your nearest CAL contact:
CALgrafix Process Monitoring and Configuration Software

CALgrafix is cost-effective process monitoring and controller configuration software that provides added value to using CAL's range of process and temperature controllers. Features such as logging, charting, alarm indication, networking and configuration are integrated within a simple Windows-based user interface.

CALgrafix is ideal in applications where there is a requirement to monitor and record temperature or other process values. Examples: process data for manufacturing reporting, quality control, health and safety purposes or OEM system development.

**CALgrafix Applications**
- Environmental and test chambers
- Plastic injection and extrusion machines
- Metal and glass annealing
- Material curing equipment
- Refrigeration equipment
- Ovens, autoclaves, furnaces, and kilns
- Scientific research and testing
- Food processing equipment
- Other process and OEM applications
- Semiconductor manufacturing processes
- and your application ……

**Advantages of using CALgrafix**
- Reduce installation time – quick and simple configuration of CAL's range of controllers
- Access to detailed process data via the charting and logging features
- Lower cost alternative to SCADA
- Simple set-up, no programming skills required
- Reduce response time to alarms
- Reduce changeover time for different process 'recipes'
- Vast networking possibilities with OPC client/server architecture.

**Contact CAL for further details**

**Charting and Logging**
- Charting and logging is possible for all measured parameters. (e.g. PV, SP, Power output %)
- Automatic archives of data can be set. (i.e. every sec, min, hour or day)
- Export logged data to other applications
- Comments can be added to points of time in charts
- Multiple scaling on y-axis to show various measured values
- Custom colour settings for chart and traces
- Time base can be selected for charts
- Custom timed charts can be scheduled to run within a 24hr period

**Alarms**
- Audible .WAV file can be imported and launched during alarm condition
- <, > and band alarms can be set for all measured parameters
- Screen display priority is always given to alarm window
- Alarms are saved with application until acknowledged

**Other Features**
- Digital bitmap image can be imported as the background
- High resolution re-sizeable image of each controller is displayed
- Current process value is displayed on each controller image

**Networking**
- Up to 128 controllers per RS485 network
- Modbus RTU protocol
- Multiple controller networks can be monitored by one PC running CALgrafix

**FREE CALgrafix demo disk available on request**