Isotech Controllers and LabVIEW

**Introduction**

The majority of temperature controllers used in Isotech Dry Blocks, Baths and Furnaces are manufactured by Eurotherm.

The controllers feature special firmware to improve the accuracy and user interface for Isotech equipment.

The communications protocol remains unchanged and Eurotherm documentation will be helpful for those writing software.

The Eurotherm controller will feature either Eurotherm Ei BiSynch protocol or Modbus.

The older 808 and 22xx family of controllers have used Ei Biysnch, the newer controllers and all Isotech Portable Dry Blocks produced since 2006 have used Modbus.

**Identification**

<table>
<thead>
<tr>
<th>3216 Controller</th>
<th>2216 Controller</th>
</tr>
</thead>
<tbody>
<tr>
<td>Has LCD Display</td>
<td>Has LED Display</td>
</tr>
<tr>
<td>Serial Number Scrolls Across Upper Display at Power Up</td>
<td>No Scrolling Text at Power Up</td>
</tr>
<tr>
<td>Display Surround Silver</td>
<td>Display Surround Green</td>
</tr>
<tr>
<td>Modbus Protocol</td>
<td>Ei BiSynch Protocol</td>
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</tbody>
</table>

For other models please advise the serial number of your Isotech equipment

**Drivers**

We have Ei BiSych Drivers for Labview, up to 6.1 available on the website [http://www.isotech.info/software/labview/](http://www.isotech.info/software/labview/)

**Modbus Drivers**

[http://www.eurotherm.co.uk/labview/](http://www.eurotherm.co.uk/labview/)

Other drivers can be found at [www.ni.com](http://www.ni.com)


**Documentation**

The Eurotherm “2000 Series MODBUS and EI-BISYNCH Digital Communications Handbook (HA026230 Issue 2) (567 KB)” describe both protocols. It is available from the Eurotherm Document Library.

[http://www.eurotherm.co.uk/document-library/](http://www.eurotherm.co.uk/document-library/)

**Trouble Shooting**

Isotech equipment includes Cal Notepad Software, this supports both Ei Biynch and Modbus Protocol and can be used to verify the protocol and cable.