


















## Product Overview

Alternative Controls		Remote Services and Alarm Services
Controller	HiProSystems	
<b>Basic</b>		<b>Remote Services</b>
 <p><b>R6</b> -1 temperature setpoint</p>  <p><b>Eurotherm 3208</b> -2 temperature setpoints</p>	 <p><b>Operator interface H700</b> for simple, standardized processes without any customer specific adjustments / configurations</p> <ul style="list-style-type: none"> <li>- Touch panel: 5,7"-display with alpha numeric process visualization</li> <li>- Siemens PLC hardware</li> </ul>	 <p><b>Remote service for PLC</b></p> <ul style="list-style-type: none"> <li>-Via conventional telephone (analog modem)</li> <li>-Via cell phone (GSM, GPRS, Edge, UMTS, eWon 2000/4000)</li> <li>-Via internet (eWon 2000/4000, VPN)</li> </ul>
<b>Comfort</b>		<b>Alarm Services</b>
 <p><b>Nabertherm B150, B180</b> -1 program / 2 steps</p>  <p><b>Nabertherm B130</b> -2 programs / 4 steps -With preset programs for ceramic applications</p>	 <p><b>Operator interface H1700</b> for complex standardized processes with customer specific adjustments/configurations</p> <ul style="list-style-type: none"> <li>- Touch panel: 5,7"-display with alpha numeric process visualization</li> <li>- Siemens PLC hardware</li> </ul>	 <p><b>Remote service for PC</b> -Via Internet (Teamviewer)</p>
<b>Professional</b>		
 <p><b>Eurotherm 3216</b> - 1 program / 8 steps - optional with serial interface</p>  <p><b>Nabertherm C280</b> -9 programs / 4 steps -2 settable functions -With preset programs for ceramic applications</p>  <p><b>Nabertherm P300-P330</b> -9 programs / 40 steps -2 settable functions -P330 with real-time clock</p>	 <p><b>Operator interface H3700</b> for complex standardized processes with customer specific adjustments/configurations</p> <ul style="list-style-type: none"> <li>-Touch panel: 12"-display with graphical process visualization</li> <li>-Siemens PLC hardware</li> </ul>  <p><b>Operator interface Nabertherm Control Center NCC,</b> also for multi-step and parallel processes with customer specific adjustments/configurations</p> <ul style="list-style-type: none"> <li>-PC Process-Control-System (SCADA) with 19"-monitor and graphical process visualization</li> <li>-Siemens PLC hardware</li> </ul>  <p><b>Safety packages</b></p> <ul style="list-style-type: none"> <li>- Realization with conventional safety technology</li> <li>- Realization with failsafe PLC technology <ul style="list-style-type: none"> <li>- Siemens F-PLC</li> <li>- Operator interface H1700 or up</li> </ul> </li> </ul>	 <p><b>Alarm messages HiProSystems</b></p> <ul style="list-style-type: none"> <li>-As E-Mail/SMS message</li> <li>-eWon 2000/4000</li> <li>-Forwarding of 1 (up to 5) group messages</li> </ul>  <p><b>Alarm messages Nabertherm Control Center NCC</b></p> <ul style="list-style-type: none"> <li>-As E-Mail/SMS message</li> <li>-Siemens AlarmControlCenter with GSM module</li> <li>-Forwarding of any alarm message</li> <li>-Configurable by the operator</li> </ul>
<b>Professional</b>		
 <p><b>Eurotherm 3504</b> -Multi-zone-/charge control -Up to 6 setable functions -25 programs / up to 500 steps</p>		

## Documentation

### Basic



#### Record and display of process data with paper chart recorder

- Eurotherm 4102/3
- 6 measuring points



#### Record and display of process data with graphical recorder

- Eurotherm 6100A/E
- With 3-18 measuring points
- Interface for USB-flash drive and CF-card
- Data security level 2



#### Record of process data with USB-flash drive for Nabertherm-controller

- Presentation with Nabertherm presentation software NTGraph or customer's spreadsheet
- Recording of differential time
- Data security level 1



#### Recording process data with storage device with NTLog (HiProSystems)

- On storage card, USB-flash drive or network
- From H1700/H3700
- Presentation with Nabertherm presentation software NTGraph or customer's spreadsheet
- Data security level 1

### Comfort



#### Reading and processing with MV-Software

- Setpoints, actual values from one or more Nabertherm- and/or Eurotherm-controller according to ISO9000ff., incl. operating and programming
- Only actual values for other controllers and systems
- Data security level 2



#### Data transmission between graphical recorder and HiProSystems or Eurotherm controller

- Option for Eurotherm 6100A/6180A
- Communication to recorder via network
- Data security level 2



#### Reading and processing with Nabertherm Documentation Center NDC

- 16 records defined by one or more Nabertherm furnaces according to ISO9000
- From H1700
- Data security level 2

### Professional



#### Process control system with Nabertherm Control Center NCC

- PC process control system (SCADA)
- Documentation of complete process chains according to ISO9000ff.
- At least 16 Process-specific records per furnace
- Data security level 2



#### Relevant documentation for standards, i.e. according to AMS 2750D/NADCAP, CQI-9, FDA..

- Realization with NCC
- Realization with recorder Eurotherm 6100A, 6180A
- TUS-recorder with Eurotherm 6100A/6180A
- Data security level 2

### Legend of Nabertherm security levels

Nabertherm security levels describe the protection against manipulation of the process documentation.

#### 1. level: Protection against intentional manipulation of a file with little criminal effort

Documentation with a simple proof obligation (e.g. the quality of a product), where damages due to criminal actions remains manageable.

-> Realization i.e. by checksum calculation, etc...

#### 2. level: Protection against intentional modification of a file with a high criminal effort

Use in normative burden of proof, which cause high damages by criminal manipulation (e.g. AMS, FDA, CQI-9..).

-> Realization e.g. by generating PDF-Files, additional saving of hidden files, etc.