

4. Control devices

4.1 Temperature controllers

SNOL products are equipped with high-precision digital microprocessor Omron or Eurotherm temperature controllers fitted with self-tuning and manual PID settings. Temperature measurement is supported by thermocouple. The customer can select a basic or programmable temperature controller, which offers up to 32 programming segments (rate of temperature rise or decrease control, maintenance of preset temperature, automatic shutdown). A wide range of devices allows to select the most appropriate controller for your process.

Omron E5CC



Eurotherm 3216



Eurotherm 3504



Omron E5CC-T



Eurotherm 3208



Eurotherm Nanodac



| Model | Programmable | Number of programs | Number of steps in a program | Computer port | Control method | | Control signal | | |
|----------------------|--------------|--------------------|------------------------------|---------------|----------------|--------|----------------|---------|-----------------------------|
| | | | | | PID | ON/OFF | Type | | Nubers of auxiliary outputs |
| | | | | | | | Relay | Voltage | |
| Omron E5CC | ○ | 1 | 2 | ● | ● | ● | ● | ● | 3 |
| Omron E5CC-T | ● | 8 | 32 | ● | ● | ● | ● | ● | 3 |
| Eurotherm 3216 | ○ | 1 | 8 | ● | ● | ● | ● | ● | 2 |
| Eurotherm 3208 | ● | 5 | 8 | ● | ● | ● | ● | ● | 3 |
| Eurotherm 3508 | ● | 50 | 50 | ● | ● | ● | ● | ● | 2 |
| Eurotherm 3504 | ● | 50 | 50 | ● | ● | ● | ● | ● | 5 |
| Eurotherm Nanodac | ● | 100 | 25 | ● | ● | ● | ● | ● | 5 |
| Eurotherm E+PLC100 * | ● | - | - | ● | ● | ● | ● | ● | 4 |

* PID controller, recorder and PLC in one – designed for elaborate control algorithms.

4. Control devices

4.2 Eurotherm data recorders

Eurotherm data recorders are ideal for basic visualisation and recording requirements. They have a full colour display and utilise touch screen technology for clear and intuitive configuration and operation. Also, support of a USB port comes as standard to enable the use of a mouse, keyboard or a bar code scanner. Data can be moved manually or automatically archived to multiple locations: removable media, network servers or the Eurotherm Review database on a PC. These recorders can easily be integrated into a larger system and data files can be transferred across the network.

Main features:

- Advanced data security and archiving
- 5.5", 1/4 VGA, Color touch screen display
- Designed for network and stand alone use
- FTP client and server
- Live, remote data viewing and configuration
- 125ms parallel sampling.



4.3 Computer software SNOL V2.0

SNOL V2.0 is a computer software for data recording, viewing and configuring the temperature controller running your thermal treatment process. The software is designed for Windows operating system. Computer software allows to simply run, review and display charts on thermal process temperatures and other settings.

Main features:

- Up to 128 controllers connection
- Supports up to 4 computer ports
- Control of device parameters and programs via computer
- Live, remote data viewing and configuration
- Graphical representation of the data
- Data export to Microsoft Excel format
- Ability to observe the process in a distance by internet
- Connections RS-232 and RS-485.
- Multiple language entry (ability to install necessary language).



4.4 Timer Galaxy

The main function of the timer is remote start of the furnace. The timer works in real-time. During the operation, the output contact of the timer is operated according to the settings of the dial-switches. However, it is possible to manually override this operation for each channel individually at all times.

Main features:

- Start and stop 24 hour / 7 day oven operation
- Stores up to 20 programs with up to 10 ON and 10 OFF events/day
- Manual 3-way override
- 16 Amp, 277 VAC resistive SPDT output contacts
- Reserve carryover: 3 years (Non-replaceable battery)
- Manual Daylight Time Changeover
- 3 languages option
- Available only with Omron devices.





Want to know more?

If you have questions about this item, please give us a call on 01257 270 433.

Richmond Scientific are a family run business in Lancashire. We're a small team, and we're always just a phone call away. With over 30 years in the business there's not much we haven't seen before, and we're always happy to chat.

Have kit to sell?

Call us on 01257 270 433

Email: harry@richmondscientific.com

Visit: www.richmondscientific.com

[Visit Website](#)

[Sell used kit](#)

[Our newsletter](#)