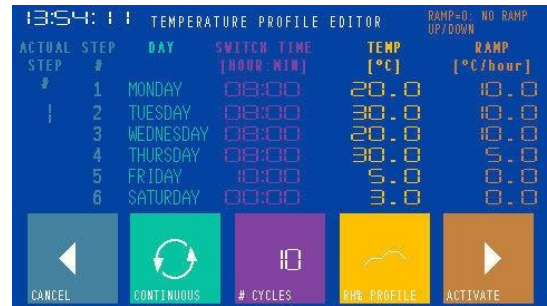




# CasCade Automation Systems B.V.

*Climate Manager - The universal temperature & humidity control system for climate test chambers*

# Temperature & Humidity control



The CasCade Climate Manager is an **advanced and flexible configurable temperature / humidity control- and datalogging system**. The system can also be used for only the heat/cool temperature control (without humidity control)

The Climate Manager is **operated with a very user friendly touchpanel**, that makes operation very easy and effective.

The Climate Manager can be used for **new climate control chambers**, as well as for **upgrading existing ones** with more flexibility and advanced features.

The control system can be very easily programmed via the touchpanel with fixed setpoints for the temperature/humidity, as well as with a ramp/soak or a week based profiler. This can be selected by the user of the equipment.

The used hardware configuration is selectable in a flexible way by the technician during the initial startup and configuration phase. He can configure the application for the specific features of the existing (or new) climate control chamber.

The system has an **integrated datalogging functionality for registering temperature/humidity** on an USB stick as a .CSV file. Remotely operate this advanced, flexible, but **still cost effective solution** via **smartphone/tablet** or **windows-PC** based application.

## Your Advantages

- Flexible configurable system for both **new and existing climate chambers**
- **Easy** operating with touchpanel
- **Simple programming of profiler**
- **Integrated** temperature & humidity **datalogging**
- **Multi language operation**
- **5 years warranty on control equipment**
- **2 years warranty on touchpanel**
- **High quality Japanese electronics**

Are you interested? Please contact us!!



Thyristor units



Mini controllers



Plugs & Jacks



CasCade Automation Systems B.V.  
Tinstraat 37 – 39  
2984 AN Ridderkerk  
The Netherlands

T +31 (0) 0180 463870  
F +31 (0) 0180 463871  
[info@cascade.net](mailto:info@cascade.net)  
[www.cascade.net](http://www.cascade.net)



### System specifications:

- High visibility touchpanel for operation
- Easy programming in fixed, ramp/soak or week day profiler
- Password protection with user levels
- Datalogging: temperature & humidity on USB stick (.CSV)
- DIN-rail mounted control system system
- Power supply: 24VDC
- Easy setup for technician to adapt to specific climate chamber
- Extra analog/digital IO service screens for technician (fault finding)
- Clear alarm screens for easy service
- Multi language selectable by user (English, German and Dutch)
- RS-485 modbus communication between control system and touchpanel

### Analog & temperature/humidity control IO specifications:

- Temperature inputs: 3-wire RTD Pt100 or TC K or T
- Humidity input: 4-20mA
- Temperature control outputs: relay or SSR
- Humidity control outputs: relay or SSR
- Compressor pressure measurement: 4-20mA (-1 to +25Bar)
- Compressor temperature measurement: 3-wire RTD Pt100 or TC-K or T

### Digital input specifications (optional module):

- DI1: Discharge pressure OK (1=OK)
- DI2: Testspace temperature OK (1=OK)
- DI3: Humidifier OK (1=OK)
- DI4: Door closed (1=closed)
- DI5: Thermal protection test space heater OK (1=OK)
- DI6: Thermal protection compressor motor OK (1=OK)
- DI7: Thermal protection test space fan OK (1=OK)
- DI8: Thermal protection edge heater OK (1=OK)

### Digital output specifications (optional module):

- DO1: Alarm ON (1=ON)
- DO2: Side heating ON (1=ON)
- DO3: Temperature control ON (1=ON)
- DO4: Climate control ON (1=ON)
- DO5: Suction pressure protection ON (1=ON)
- DO6: Suction axle cooling ON (1=ON)
- DO7: Testspace fan ON (1=ON)
- DO8: Spare

- Temperature Controllers
- Process Controllers
- Programmers
- Solid State Relays
- Thyristor Units
- Temperature Transmitters
- Indicators

- Multi-zone Control Systems
- Thermocouple en PT100 elements
- Infra Red spot camera's
- Infra Red Image Camera's
- Single and multi channel dataloggers
- Scada Software

- LogOnline: Cloud solution for online temperature data logging
- Programmable Touchscreens PC's
- Human Machine Interfaces
- Thermocouple/compensation wire
- Thermocouple connectors standard and mini