Devices can be regulated and controlled in various ways. Each individual will have his own ideas and requirements. Mark has thus developed a range of options from standard to project-specific.

Our range includes various types of thermostats, speed controllers, packaged digital controllers and full custom made power and control panels, enabling the user to control a single unit or multiple units.

Mark has its own electrical engineering and manufacturing department and is therefore able to offer a solution for any control requirement. Our engineers would be pleased to advise you. Simply contact them to discuss the options within our range of control equipment.

New in our range are the thermostats and controllers controlled via Internet (web-based). This allows remote connection with the thermostat via a web browser or mobile app. For example, you can operate or change the thermostat anywhere in the world with a telephone, tablet or laptop / PC.

Our range consists of:
- Full range of thermostats and sensors
- Time controls
- Digital time and temperature controllers
- Speed controllers including variable speed drives (VSD)
- Custom-made power and control panels
# Room Thermostats and Time Switches

<table>
<thead>
<tr>
<th>230 V Room Thermostat</th>
<th>230 V Room Thermostat with Selector, Reset Button and Failure Light</th>
<th>Clock Thermostat RAM 832</th>
</tr>
</thead>
<tbody>
<tr>
<td>Order code: 0629013</td>
<td>Order code: 0629048</td>
<td>Order code: 0629039</td>
</tr>
<tr>
<td>A room thermostat for 1 to 1 control of a device based on room temperature.</td>
<td>An extensive room thermostat with summer/winter switch, failure alert and reset button thermostat for 1 to 1 control of a device based on room temperature.</td>
<td>A digital clock thermostat for 1 to 1 control of a device based on room temperature.</td>
</tr>
</tbody>
</table>

**Specifications:**
- Required temperature adjustable from 10…30°C.
- Switch contact voltage free max. 4A / 230V.

**Can be used for:**
- G-TYPE
- Tanner MDA (230V)
- Tanner MDE
- Tanner MDC (230V)
- MDV Blue AC
- Ecofan P
- Fohn
- 5-position controller 230V
- High/low/off controller

---

**Specifications:**
- Required temperature adjustable from 5…30°C.
- Selector for burner on/off/heat out setting.
- Selector for heat/ventilate or high/low.
- Indicator lamp for burner trip
- Reset button to reset a burner trip

**Can be used for:**
- Infra Line
- Tanner MDA
- Tanner MDE
- Tanner MBA
- 5-position controller 230V
- High/low/off controller

---

**Specifications:**
- Language can be set to English, German, Dutch, French, Italian or Spanish.
- Switch contact, voltage free safety low tension max. 6A(1)/250V~ min. 1mA 5V.
- Temperature measurement range 0…50°C increments of 0.1°C.
- Temperature setting range 6…30°C in stages from 0.2°C.
- 3 control programmes, 2 pre-programmed, 1 freely programmable with 22 memory points, programmable for Mon-Fri, Sat-Sun, every day or separate days.
- Automatic switching between summer/winter.
- Protection class IP20 in accordance with EN 60529 -1.
- 2x alkaline batteries, 1.5V, type AA.
- Power back up when battery replaced 10 minutes.

---

**Can be used for:**
- Tanner MDA
- Tanner MDE
- Tanner MBA
- 5-position controller 230V
- High/low/off controller
Digital temperature control suitable to on/off, high/low or modulated control multiple Infra’s based on room temperature. With the ability for area control and PIN security to modify settings.

The PinTherm Connect is a digital week clock room thermostat. The controller is equipped with an on/off contact and a 0-10VDC output. Both signals are reversible, so the control is suitable for heating and cooling. The settings of the thermostat can be read and/or modified with Modbus or Ethernet. The thermostat can be connected to the BMS (building management system).

The PinTherm Infra Connect is a digital room thermostat to switch an Infra on/off or control high/low or modulating based on room temperature. The settings of the thermostat can be read and/or modified with Modbus or Ethernet. The thermostat can be connected to the BMS (building management system).

**Specifications:**
- Delivery: Control panel with external display
- Size ext. display (WxHxD): 160x98x43mm
- Languages: English, French, German and Dutch
- Protection class: IP20
- Mounting of display: built-in / wall installation
- Number of areas: 3
- Number of Infra’s per area: 6
- Temperature range: 2 / 40°C per 0.5°C.
- Operating options: Auto, continuous day, continuous night or continuous off
- Day-night temperature monitoring with reading of the actual room temperature on the display
- Automatic switching between summer/winter time.
- Control: on/off, high/low or modulating
- High/low control: Auto 1, 2 or 3K
- Time switch with week program (7 switch blocks)
- Overtime timer: 0-180 min.
- Signaling of burner malfunction.
- Reset option to release a burner malfunction per area.
- PIN security to modify for example switching times and temperatures.
- Temperature sensor: PT1000 (black bulb) to order seperately (required per area)
- Modbus TCP/IP
- Power: 230Vac / 50Hz
- Embedded webserver

**Can be used for:**
- Infra on/off and high/low model.
- Infra Mono on/off and high/low model.
- Infra HT

**Can be used for:**
- G-Type
- Tanner MDA / MDC / MBA
- LDA Swirl
- Ecofan W
- MDA Blue
- Fohn

**Accessories:**
- External black bulb sensor
  - Order code: 0629081 or 0629082
- External room temperature sensor
  - Order code: 0629086

**Specifications:**
- Power PinTherm Connect: 230Vac / 50Hz
- Own consumption: < 9W
- Clock: 24 hour clock with automatic summer/ winter time switching
- Switching programs: 3 switching programs a day
- Switching differential: 0.1 - 3K
- Dimensions: 166 x 160 x 106mm (bxwxh)
- Weight: 880 grams
- Protection class: IP54
- Installation environment: Transport/storage: -20°C until +70°C Operational: -10°C until +60°C Relative air humidity: 0-90% not condensating
- Switch contact(s): Heating: 230Vac/16A (4A) Others: 230Vac/10A (2.5A)
- Temperature setting: 0 until 39°C per 1°C adjustable
- Overtime timer: adjustable 1, 2 or 3 hours (060, 120, 180)
- Calibration: adjustable from -3.5°C until +3.5°C
- Heating/cooling: Reversible contact for heating or cooling 0-10 VDC output for heating or cooling
- Languages: NL/EN/DE/FR/PL/RO/LT
- Fuse: 6A

**Can be used for:**
- Infra on/off and high/low model.
- Tanner MDA / MDC / MBA
- Tanner MDE

**Can be used for:**
- Infra on/off and high/low model.
- Infra Mono on/off and high/low model.
- Infra HT
- Infra Line
- Tanner MDE
OPTITHERM+ WATER-PROOF ROOM THERMOSTAT

**WEB-BASED**

<table>
<thead>
<tr>
<th>Order code: 0629189</th>
<th>Order code: 0629004</th>
</tr>
</thead>
</table>

The OptiTherm+ is a digital clock thermostat with internal room sensor with which 1 or more air heaters (type GS+), up to a maximum of 8, can be controlled on the basis of the room temperature by means of a bus system.

**Specifications:**
- Push-button for switching the heating mode on and off.
- Push-button for switching the fan of the air heater(s) on and off.
- LED to indicate a malfunction along with notification on the display in the form of a failure code.
- Reset button to release a burner malfunction.
- An annual clock with 20 program blocks, clock program Mon-Fri, Tues-Fri, Sat-Sun, daily or every day.
- Exceptional days, 20 program blocks, programmable by date, switching to daytime, eco or night-time temperature.
- 4 different operating modes (day, eco, night, frost).
- An overtime timer for switching to a different operating mode outside the switching times. Overtime timer freely adjustable from 15 min to 24 hours switching to daytime, eco or night-time temperature.
- Pin code protection to protect settings such as temperature, clock program, etc.
- Frost protection which automatically switches on the air heaters if the room temperature falls too far.
- Digital clock thermostat.

Connection: bus system (2-wire).
Dimensions: 129 x 129 x 20mm (lxwxh)
Weight: 188 grams.
Protection class: IP30.
Ambient temperature: 0-40°C.
Temperature setting: 0 to 40°C per 0.5°C can be set.
Time display: 24 hours
Summer/winter: adjustable automatic/off
Languages can be set to Dutch, English, German, French, Polish or Romanian
External sensor: option of measuring the temperature per unit or on the basis of an average value.

Can be used for:
- GS+
- G(C)+
- GSX

**Accessories:**
- External room sensor to be connected to the air heater. Order code 0629194
- Data cable 12.5 meter (3000600), 25 meter (3000601), 100 meter (3000602)

**Can be used for:**
- Tanner MDE
- Tanner MDA
- Tanner MDC
- Tanner MBA
- 5-position controller 230V
- High/low/off controller

**WATER-PROOF ROOM THERMOSTAT**

Water resistant (IP65) room thermostat with adjustable differential. Measures the temperature using a sensor filled with liquid connected to the thermostat with a capillary.

**Specifications:**
- Bulb sensor filled with liquid.
- Adjustment range from -5…+28°C.
- Differential adjustable from 2…8K.
- Material protection class and resistant to splashing in accordance with IP65.
- Switching power 230V~, 15(8)A.

Can be used for:
- Tanner MDE
- Tanner MDA
- Tanner MDC
- Tanner MBA
- 5-position controller 230V
- High/low/off controller
**DESTRATIFICATION REGULATOR**
**EDTR 6 230 V**

Order code: 0629099

Automatic energy-saving system for continuous control of ECOFAN ceiling fans depending on the temperature difference.
Incl. two room temperature sensors, 1. room sensor in the lounge area, 2. room sensor in the ceiling area.

Can be used for:
- ECOFAN P140 (with AC motor)
- ECOFAN W (with EC motor)

**Specifications:**
- Power supply: 230V/50V/Hz
- Max. flow: 6 A
- Up to max. 14 x ECOFAN
- Ambient temperature: 0-40 °C
- Adjustment range: 3 °C
- Protection class: IP54
- Weight: 1.25 kg
- Dimensions: 135 x 250 x 115 mm (wxhxd)

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**CHRONOTHERM TOUCH**
**(MODULATING THERMOSTAT)**

Order code: 0629077

A programmable, modulating clock thermostat for modulating boilers, that control according to the OpenTherm®-communication protocol, as Mark EcoFlex, PowerFlex, MegaFlex and MaxiFlex. Operation is extremely easy through the touch screen.

Can be used for:
- EcoFlex
- PowerFlex
- MegaFlex
- MaxiFlex

**Specifications:**
- Display: large touch screen with backlight.
- The touch screen display can be locked in whole or in part.
- Cleaning ability for the touch screen without changing the settings.
- Clock program: week program.
- Adjustable up to 6 periods per day.
- Possibility to program multiple days simultaneously.
- Possibility to program a day off, holiday period or shiftwork.
- Overtime timer easy to program.
- Automatic switching between summer/winter.
- Temperature range: -4.5°...+32°C
- Control: modulating. Self-learning and optimizing.
- Weather-dependant control possible.
- Fitted with a permanent memory which stores all saved settings. Only temporary settings are not memorized.
- No battery power.

---

**ROOM THERMOSTAT WITH SPEED CONTROL**

Order code: 5997350

Programmable room thermostat for speed control of appliances with an EC motor.

Can be used for:
- Tanner CLA
- Fan Coil

**Specifications:**
- Power supply: 230V/50Hz, 230V/60Hz or 24V/60Hz
- Protection class: IP30.
- Room temperature adjustable from 0...+40°C
- Transport / storage temperature: -10...+50°C
- Humidity limits: 20...80% RH (not condensing)
- Dimensions: 132 x 87 x 23.6 mm (wxhxd)
- Weight: 265 gram
- Plastic housing in RAL 9003
- Wall mounting

---
### SURFACE CONTACT THERMOSTAT

- Order code: 0629180

Thermostat to start a water-supplied air heater, for example, when the water is at the required temperature.

**Specifications:**
- Temperature adjustable from 20...90°C per 5°C.
- Protection class IP40.
- Voltage free exchange contact.
- Switching power 24...230V~, 16(4)A, min. 150mA at 24V~.
- Ambient temperature -35...+65°C.
- Maximum sensor temperature 110°C.
- Dimensions 38 x 48 x 103mm.
- Process connection using the 220mm metal butterfly clips supplied.

### FROST PROTECTION THERMOSTAT

- Order code: 0629125

Thermostat to protect against the danger of frost. Equipped with a bulb sensor which is active over the entire length.

**Specifications:**
- Adjustment range from -10...+12°C.
- Switch differential 1K.
- Protection class IP40.
- Voltage free exchange contact.
- Switching power 24...230V~, 15(8)A, min. 150mA at 24V~.
- Ambient temperature -9...+55°C.
- Dimensions 105 x 112 x 55mm.
- Copper capillary.
- Capillary filled with Solkane R134a.
- Capillary active across the entire length.
- Capillary length 1.8m.

### DIGITAL TIME CLOCK

- Order code: 0633030

Digital time switch to switch installations on and off or to control temperature reductions for the night or over the weekend.

**Specifications:**
- Simple to use.
- 8 on/off cycles with 13 different day blocks, programmable by day or block of days.
- 4 different operating positions: manually on constantly, manually off constantly, adjustable countdown timer, automatic operation in accordance with timer switching programme.
- Integrated countdown timer.
- Suitable for wall installation or installation on DIN rail.
- Manual on/off.
- Rapid summer/winter time switching.
- Power reserve 72 hours.
- Dimensions 78.8 x 106 x 56mm.
- Protection degree IP20 in accordance with EN 60 529.
- Operating voltage AC 230V -15...+10%, 50/60Hz, 3.0VA.
- Relay contact Q AC24...240V, DC 24V, max. 6(3)A.

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Can be used for:
- Tanner MDA
- Tanner MDC
- Tanner MBA
- 5-position controller 230V
- High/low/off controller

---

Can be used for:
- Tanner MDA
- Tanner MDC
- 5-position controller 230V
- High/low/off controller
### TEMPERATURE REGULATOR

**Black Bulb**
- Order code: 0631203
- Electronic on/off temperature regulator for DIN rail installation.
- Specifications:
  - 230Vac, 50/60Hz power supply.
  - Motor rating ca. 2.8VA.
  - External sensor type NTC4.
  - Temperature setting range from 0…60°C.
  - Switch differential 0.5…5K adjustable
  - Switch contact exchange contact, voltage free.
  - Closing contact contact load 10(3)A, 250V.
  - Normally closed contact load 5(1.5)A, 250V.
  - Equipped with LED indicator when contact switched in (relay).
  - Protection class IP20.
  - Ambient temperature -10…+50.
  - Dimensions 36 x 86 x 62.5mm.
  - Connecting terminals 0.25…2.5mm².
- External sensor 06 29 000
  - Measurement range -35…+100°C.
  - Protection class IP30.
  - Cables between regulator and sensor maximum 50m.
  - Dimensions 74 x 74 x 41.5mm.

### USER INTERFACE WITH TOUCH PANEL

- Order code: 0631374
- User friendly control panel for commissioning and setting the daily operation of the Mark Airstream. The control panel is very easy to use, thanks to the logical menu’s, easy navigation and recognizable symbols.
- Specifications:
  - 3.5” color Touchscreen.
  - Easy navigation through grafic interface.
  - Connection and installation through Modbus.
  - Mounting on the Airstream or wall is possible.
  - QuickPlug™ installation.
  - All system parameters are visible to each user.
  - Only authorised users can change the system parameters. Access to the control system can be granted for 2 different levels:
    - User
    - Installer
  - Voltage24 V DC, ±15%
  - Consumed current max 37,5 mA
  - Modbus RS-485, 115 kBaud
  - Modbus connection 2 x RJ12 6/6
  - Max. cable length 50 m (in low EMC environment)
  - Ambient temperature -10°C /+40°C
  - Air humidity 0-95% (not condensing)
  - Dimensions 80 x 121 x 42
  - Modbus cable MPFK6S
  - Density class IP21
  - Weight 190 g

### CO₂ SENSOR

- Order code: 0629165 (wall installation)
- Sensor that detects CO₂ content in the air. The detection range of this CO₂ sensor is calibrated for standard applications such as monitoring of residential rooms or conference rooms.
- Specifications:
  - Power supply 24 V AC/DC.
  - Several measurement ranges possible: 0...2000ppm, 0...5000 ppm, 0...10000ppm.
  - Output signal 0...10V.
  - Measuring accuracy: +/- 70ppm plus 5% of measured value.
  - Pressure dependence: +/- 1.6% / kPa.
  - Warm-up time: approximately 1 hour.
  - Ambient temperature: 0...50°C
  - Reaction time: approximately 1 minute.
  - Electrical connection: 0.14 - 1.5 mm².
  - Plastic enclosure (RAL 9010).
  - Dimensions 98 x 106 x 32 mm.
<table>
<thead>
<tr>
<th><strong>5-POSITION TRANSFORMER REGULATOR 230V</strong></th>
<th><strong>5-POSITION TRANSFORMER REGULATOR 400V</strong></th>
<th><strong>HIGH/LOW/OFF REGULATOR 400V</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Order code: 6A 0616186</td>
<td>Order code: 2A 0616162 - IP54</td>
<td>Order code: 7A 0616170</td>
</tr>
<tr>
<td>6A 3003096 (Ecofan W142)</td>
<td>4A 0616164 - IP21</td>
<td></td>
</tr>
<tr>
<td>12A 0616188</td>
<td>7A 0616166 - IP21</td>
<td></td>
</tr>
<tr>
<td>12A 3003097 (Ecofan W142)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14A 0616189</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14A 3003098 (Ecofan W142)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Regulator to regulate the speed of 1~230V voltage adjustable fan motors.</td>
<td>Regulator to regulate the speed of 3~400V voltage adjustable fan motors.</td>
<td>Regulator to manually switch 3~400V fan motors in Y/∆ to high/low.</td>
</tr>
</tbody>
</table>

**Specifications:**
- Option to connect several fans with the maximum connection current.
- Protection class IP54.
- Selector to switch the fan to 6 positions, including off.
- Green operating lamp.
- Option to connect a room and/or construction thermostat.
- Option to control an air valve for example via a co-switching contact (max 2A).
- Motor protection via thermo contacts (not for PTC thermister). The regulator switches off automatically in the case of overload.

**Can be used for:**
- Tanner MDA (230V)
- MDV Blue (230V)
- Ecofan W
- Ecofan P (6A)

**Can be used for:**
- Tanner MDA (400V)
- MDV Blue (400V)
- Easyair T200

**Can be used for:**
- Tanner MDA (400V)
- Easyair T200
<table>
<thead>
<tr>
<th>GTC I/II</th>
<th>GTC 11E</th>
<th>3-POSITION SELECTOR MDC 230V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Order code: 0699205, 0699206, 0699207, 0699208,</td>
<td>Order code: 0699204</td>
<td>Order code: 0631175</td>
</tr>
<tr>
<td>5-position regulator to control the hot water air curtain fan on the EASYAIR P model with doorcontact control. Including temp. sensor</td>
<td>Electronic regulator for control of the EASYAIR E electric air curtain. Including temp. sensor</td>
<td>Selector to switch the fan on the MCB 230V to 3 positions.</td>
</tr>
</tbody>
</table>

**Specifications:**
- Dimensions 150x95x30 mm.
- Equipped with color display.
- Adjustable languages: NL/FR/ENG/DE/IT/PL/DK
- Parallel switching of max. 10 air curtains possible.
- Fan mode 1-5 selectable
- In case of a power failure, the settings remain saved.
- Features automatic operation:
  - By means of a door contact control.
  - By means of a door contact control and room thermostat.
  - By means of a door contact and cooling control security.

**Can be used for:**
- EASYAIR P model

**Specifications:**
- Dimensions 150x95x30 mm.
- Equipped with color display.
- Operating mode: manually or by means of set timer.
- Fan mode 1-5 selectable
- Heating mode 1-3 (depending on the fan speed)
- In case of a power failure, the settings remain saved.
- Fault signal of the external frost thermostat on display.
- Features automatic operation:
  - By means of a door contact control.
  - By means of cooling control security.
  - By means of a door contact and cooling control security.
  - By means of room thermostat.

**Can be used for:**
- EASYAIR E model

**Specifications:**
- Dimensions 150x95x30 mm.
- Equipped with color display.
- Parallel switching of max. 10 air curtains possible.
- Operating mode: manually or by means of set timer.
- Fan mode 1-5 selectable
- Heating mode 1-3 (depending on the fan speed)
- In case of a power failure, the settings remain saved.
- Fault signal of the external frost thermostat on display.
- Features automatic operation:
  - By means of a door contact control.
  - By means of cooling control security.
  - By means of a door contact and cooling control security.
  - By means of room thermostat.

**Can be used for:**
- Tanner MDC (230V)
- In combination with MDC 230V motor control
  Order code: 3003500
An Interface+ can be used in two ways.

1. Power control: An externally supplied 0-10VDC signal is converted into a power control of the burner. With an Interface+ module, one G(S)+ can be controlled.
   - Potential free entry: Reset
   - Potential free exits: Malfunction, Operation

2. Connection BMS (building management system): Settings, actual temperatures and fault codes can be read using Modbus. Settings of the OptiTherm+ can be modified.

To control an EC-fan based on pressure.

To variable control the MDV Blue EC fan through a 0-10V signal.

Specifications:
- Wiring: Shielded data cable (between Interface+ and air heater)
- Dimensions: 109x154x49 mm (lxwxh)
- Weight: 498 grams
- Degree of protection: IP20
- Ambient temperature: 0-40°C

Specifications:
- Measuring range: 0-2500Pa
- Accuracy: 0.5% * measured value ±2,5Pa
- Maximum pressure: 20kPa
- Dimensions: 91x75x38mm (wxhxd)
- Ambient temperature: 
  -20 / +40°C (operation)
  0 / +50°C (display)
- Humidity environment: 10-95 %RH
- Protection class: IP54
- Weight: 110 grams
- Output: 0-10Vdc, 2-10Vdc, 0-20mA, 4-20mA

Specifications:
- Type: 10K
- Resistance: 10kOhm (-20% / +20%)
- Contact load: 1A 230Vac
- Ambient temperature: 35°C
- Protection class: IP54 built-on, IP44 built-in
- Weight: 145 grams
- Color: RAL 9010
- Housing: Plastic ASA
- Mounting: built-in or built-on

Can be used for:
- GS+
- G(C)+
- GSX

Can be used for:
- MDV Blue EC

Can be used for:
- MDV Blue EC
- Tanner MDA EC
- LDA Swirl
- Ecofan W EC
### MULTI-FUNCTIONAL CONTROLLER

**230V with integrated display**

Order code: 0629400

Controller to control MDV Blue fans on the basis of temperature and CO₂, constant flow, constant pressure, constant humidity, constant CO₂, CO₂ and temperature.

**Specifications:**
- Power supply: 230Vac ±10%
- Protection class: IP40
- Dimensions (wxhxd): 87x87x42mm
- Modbus: RS485 connection (slave)
- Temperature range: 0-50°C
- Languages: English, German, Danish and Swedish
- Easy to operate
- Contrast adjustable
- Menu password protection is possible
- Output: 0-10V
- Relay contact: NO 250Vac 5.0A-AC1
- With overtime timer adjustable 0-240min
- Suitable to connect a presence sensor, temperature sensor, CO₂ sensor, humidity sensor and pressure sensor.
- Equipped with a switch with weekly program up to 10 blocks per day
- Weight: 160 grams

Can be used for:
- MDV Blue AC
- MDV Blue EC

### ROOM PRESENCE SENSOR FOR MULTI-FUNCTIONAL CONTROLLER

Order code: 0629414

PIR presence sensor for mounting on the wall.

**Specifications:**
- Dimensions (wxhxd): 85x85x33mm
- Angle: 90°
- Distance: 5 meter
- Switch-off delay: 15 sec. not adjustable
- Protection class: IP20
- Temperature range: +10 / +30°C
- The sensor measures the temperature changes to a limited distance from the front of the sensor.
- Weight: 74 grams

Can be used for:
- MDV Blue AC
- MDV Blue EC

### ROOM TEMPERATURE SENSOR IP20 FOR THE MULTI-FUNCTIONAL CONTROLLER

Order code: 0629410

22K ohm NTC room temperature sensor for wall mounting in IP20 housing.

**Specifications:**
- Dimensions (wxhxd): 85x85x33mm
- Temperature range: -20 / +40°C
- Accuracy: ±1°C
- Protection class: IP20, humid rooms area 3
- Sensor type: NTC 22K 2%
- Mounting: Wall mounting
- Weight: 88 grams

Can be used for:
- MDV Blue AC
- MDV Blue EC
## TEMPERATURE SENSOR IP54 FOR THE MULTI-FUNCTIONAL CONTROLLER

<table>
<thead>
<tr>
<th>Order code: 0629411</th>
<th>22K ohm NTC external room temperature sensor in IP54 housing.</th>
</tr>
</thead>
</table>

**Specifications:**
- Dimensions (wxhxd): 80x80x55mm
- Temperature range: -40 / +60°C
- Accuracy: 2°C full range
- Protection class: IP54
- Sensor type: NTC 22K 2%
- Mounting: Wall mounting
- Weight: 152 grams
- Storage temperature: -40 / +80°C

**Can be used for:**
- MDV Blue AC
- MDV Blue EC

## ROOM CO₂ SENSOR FOR THE MULTI-FUNCTIONAL CONTROLLER

<table>
<thead>
<tr>
<th>Order code: 0629412</th>
<th>To measure the CO₂ in a room.</th>
</tr>
</thead>
</table>

**Specifications:**
- Dimensions (wxhxd): 85x85x33mm
- Measuring range: 0-2000 ppm
- Accuracy: ±50ppm per 500ppm
- Protection class: IP21
- Mounting: Wall mounting
- Weight: 94 grams
- Operating temperature: +10 / +60°C
- Output: proportional 0-10V 15mA

**Can be used for:**
- MDV Blue AC
- MDV Blue EC

## ROOM HUMIDITY SENSOR FOR THE MULTI-FUNCTIONAL CONTROLLER

<table>
<thead>
<tr>
<th>Order code: 0629413</th>
<th>To measure the temperature and/or the relative humidity in a room.</th>
</tr>
</thead>
</table>

**Specifications:**
- Dimensions (wxhxd): 85x85x33mm
- Room temperature: 0 / +60°C
- Accuracy temp.: 0-10°C = 0-50°C (max5mA)
- Accuracy humidity: ±5% RH (10-90% RH)
- Humidity output: 0-10V = 0-100%RH (max 5mA)
- Protection class: IP20, humid rooms area 3
- Sensor type: NTC 22K 2%
- Mounting: Wall mounting
- Weight: 88 grams

**Can be used for:**
- MDV Blue AC
- MDV Blue EC
**ACTIVE PRESSURE & FLOW SENSOR WITH DISPLAY**

**Order code:** 3004506

Pressure sensor to monitor and control based on pressure difference or flow.

**Specifications:**
- Measuring range: 0-2500 Pa
- Accuracy: -20/+40°C ±3 % (> 350 Pa), ±10 Pa (< 350 Pa)
- Maximum pressure: 20 kPa
- Dimensions: 91 x 75 x 36 mm (wxhxd)
- Room temperature: -20 / +40°C (operation) 0 / +50°C (display)
- Protection class: IP54
- Weight: 110 g
- Output: 0-10 Vdc, 2-10 Vdc, 0-20 mA, 4-20 mA
- K-factor: 0.1 to 9999 m³/h can be modified to l/s.
- Supply: 24 Vac ±15%, 50/60 Hz, 3.5-28 Vdc
- Setting pressure range: -50/+50 Pa, 0/100 Pa, 0/150 Pa, 0/300 Pa, 0/500 Pa, 0/1000 Pa, 0/1600 Pa, 0/2500 Pa
- Setting flow range: 100 m³/h, 300 m³/h, 500 m³/h, 1000 m³/h, 3000 m³/h, 5000 m³/h, 9999 m³/h, 10000 m³/h, 3.00 m³/h x 1000, 5.00 m³/h x 1000, 9.99 m³/h x 1000

**Can be used for:**
- MDV Blue EC
- Airstream

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**W9 G+**

Switchbox for modulating regulation of 1 or more modulating air heaters based on room temperature.

**Specifications:**
- Steel box with cylinder lock
- One 230 V power supply group per device with a switchbox for several devices.
- Digital time switch with weekly programme.
- Day and night temperature regulator.
- Holiday switch to operate devices at the night-time temperature over longer periods.
- Overtime timer adjustable from midnight to 6.00 a.m.
- Selector per device for “heat / off / ventilate”.
- Illuminated reset button per device to indicate and reset a burner trip.
- A room temperature sensor supplied separately.

**Can be used for:**
- GS+
- GC+

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**F4 230V**

Switchbox to control a Föhn high/low model based on room temperature, with the option to switch the unit to low temporarily using a timer.

**Specifications:**
- Steel box with cylinder lock.
- Digital time switch with weekly programme.
- Regulator for day and night temperature.
- Holiday switch to enable devices to operate at the night-time temperature over longer periods.
- Digital timer to switch to the daytime mode temporarily outside the clock programme.
- Digital timer to switch the device to low temporarily.
- Selector for “heat / off / ventilate”.
- Indicators for:
  - high
  - low
  - burner in operation
  - burner failure
- A room temperature sensor supplied separately.

**Can be used for:**
- Föhn

---

**Order code:** 3002603

Contact our sales department.
### Distribution boxes

<table>
<thead>
<tr>
<th>Model</th>
<th>Image</th>
<th>Image</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>F6 24V</td>
<td><img src="image" alt="F6 24V" /></td>
<td><img src="image" alt="F7" /></td>
<td><img src="image" alt="C10" /></td>
</tr>
</tbody>
</table>

- **Order code:** 3002607
- **Order code:** 3002608
- **Order code:** 3004231

Switchbox to control a Föhn high/low model based on room temperature, with the option to switch the unit to low temporarily using a digital timer.

Switchbox to control a Föhn high/low model based on room temperature, with an additional control to restrict the temperature gradient. And the option to temporarily switch the device to low using a digital timer.

The temperature gradient means that the heater starts on maximum, and heats at full power for 30 minutes with heating of 45K. If after 30 minutes the air drawn in is <12°C, the heater continues to heat on maximum. If the temperature of the air drawn in is >12°C, the heater operates on minimum, heating at 30K.

Switchbox for controlling a Calflo with on/off fan based on room temperature with minimum inlet temperature restriction.

### Specifications:
- Steel box with cylinder lock.
- Digital time switch with weekly programme.
- Day and night temperature regulator.
- Holiday switch to enable devices to operate at the night-time temperature over longer periods.
- Digital timer to switch to the daytime mode temporarily outside the clock programme.
- Digital timer to switch the device to low temporarily.
- Selector for “heat / off / ventilate”.
- Indicators for:
  - high
  - low
  - burner in operation
  - burner failure
- A room temperature sensor supplied separately.

### Can be used for:
- Föhn
- Föhn
- Calflo on/off model
<table>
<thead>
<tr>
<th>Model</th>
<th>Switchbox for controlling a Calflo with on/off fan based on room temperature with minimum inlet temperature restriction.</th>
<th>Specifications:</th>
<th>Can be used for:</th>
</tr>
</thead>
<tbody>
<tr>
<td>C12</td>
<td>------------------------------------------------------------------------------------------------------</td>
<td>------------------</td>
<td>------------------</td>
</tr>
<tr>
<td>C20</td>
<td>------------------------------------------------------------------------------------------------------</td>
<td>------------------</td>
<td>------------------</td>
</tr>
<tr>
<td>C22</td>
<td>------------------------------------------------------------------------------------------------------</td>
<td>------------------</td>
<td>------------------</td>
</tr>
</tbody>
</table>

Order code: 3004233
Order code: 3004241
Order code: 3004243

Specifications:
- Steel box with cylinder lock
- Regulator for the room temperature and minimum inlet temperature restriction using 2-10Vdc control signal.
- Selector for heat / off / ventilate.
- Digital time switch with weekly programme.
- Holiday switch to allow devices to operate at the night-time temperature over longer periods.
- Overtime timer adjustable from midnight to 6.00 a.m.
- Failure lamps for:
  - Burner failure
  - Intake air failure
  - Burner fan thermally off
  - Maximum/gas pressure failure
  - Dirty filter
- Operating lamps for:
  - Burner on
  - Burner in operation
  - Supply fan on
  - Release control
- Reset button to reset a burner failure.
- Voltage free contact to operate extraction (24V max).
- Voltage free contact to switch extraction to high (24V max).
- Voltage free contact (supply to third parties) to check whether extraction is operating at low.
- Voltage free contact (supply to third parties) to check whether extraction is operating at high.
- A room temperature sensor supplied separately.
- A duct temperature sensor supplied separately for the minimum inlet temperature restriction.

Can be used for:
- Calflo on/off model
- Calflo high/low model
- Calflo high/low model
### Distribution boxes

<table>
<thead>
<tr>
<th>SLR ON/OFF</th>
<th>MDC 230V MOTOR CONTROL UPTO 3.0KW</th>
<th>MDC 400V MOTOR CONTROL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Order code:</strong></td>
<td>Order code: 3003500</td>
<td>Order code: 1.1kW 3003502 1.5kW 3003503 2.2kW 3003504 3.0kW 3003505</td>
</tr>
<tr>
<td><strong>Switchbox for turning 1 or more Infra Lines on/off based on room temperature, with day/night temperature setting.</strong></td>
<td>To be able to switch the 1~230V fan on the MDC. Plus the option to connect an external room thermostat and a 3-position selector for the fan.</td>
<td>To control the 3~400V fan on the MDC. Plus the option to connect an external room thermostat.</td>
</tr>
<tr>
<td><strong>Specifications:</strong></td>
<td><strong>Specifications:</strong></td>
<td><strong>Specifications:</strong></td>
</tr>
<tr>
<td>– Steel box with cylinder lock.</td>
<td>– Steel box.</td>
<td>– Steel box.</td>
</tr>
<tr>
<td>– 230V supply group per device.</td>
<td>– Solenoid switch to control the fan.</td>
<td>– Solenoid switch to control the fan.</td>
</tr>
<tr>
<td>– Digital time switch with weekly programme.</td>
<td>– Connecting terminals for external room thermostat.</td>
<td>– Connecting terminals for external 3-position selector.</td>
</tr>
<tr>
<td>– Day and night temperature control.</td>
<td>– Connecting terminals for external room thermostat.</td>
<td></td>
</tr>
<tr>
<td>– Holiday switch to allow devices to operate at the night-time temperature over longer periods.</td>
<td>– Overtime timer from 0-6 hours.</td>
<td></td>
</tr>
<tr>
<td>– Infra Line on/off selector per device.</td>
<td>– Illuminated reset button per device to indicate and reset a burner trip.</td>
<td></td>
</tr>
<tr>
<td>– A black bulb temperature sensor supplied separately.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Can be used for:</strong></td>
<td><strong>Can be used for:</strong></td>
<td><strong>Can be used for:</strong></td>
</tr>
<tr>
<td>– Infra Line on/off model</td>
<td>– Tanner MDC (230V)</td>
<td>– Tanner MDC (400V)</td>
</tr>
</tbody>
</table>