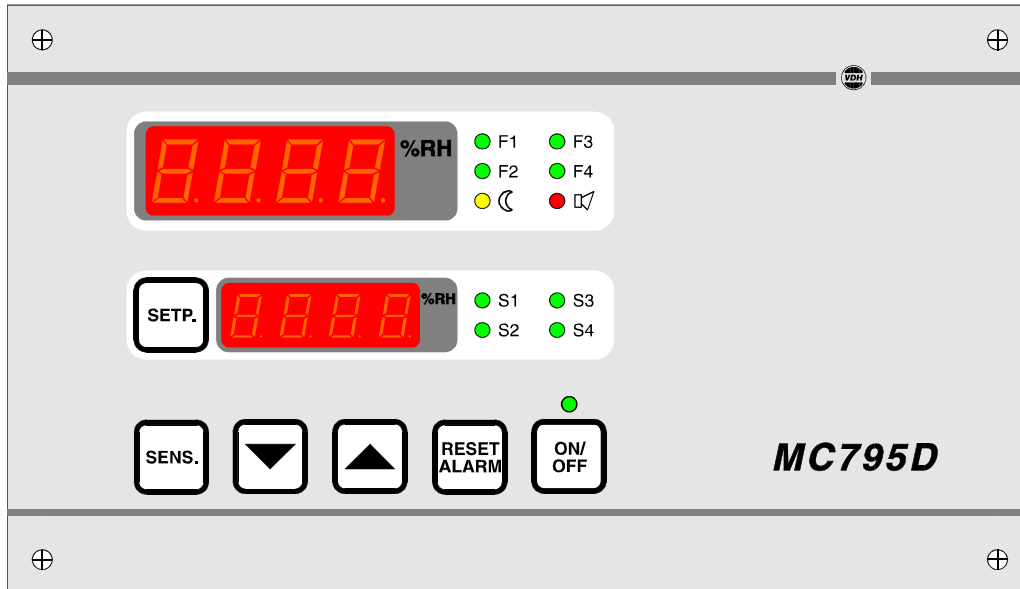


MC 795D

Operating Manual
wall and panel mounting



Description: MC 795D Hygrostat		Doc.nr.: 053682	
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1 Technical specifications.

General

Type	: MC 795D
Wall mounting:	
Housing	: Grey plastic
Material	: Polystyrol 454h KG 2 natur BASF
Dimensions	: 213 x 180 x 85mm (whd)
Front	: Polycarbonate (IP-44)
Panel mounting:	
Housing	: Steel plate panel
Material	: Steel in silvergrey
Dimensions	: 217 x 155 x 85mm (whd)
Panel cutout	: min. 208 x 146mm (wh)
Front	: Polycarbonate (IP-44)
Range	: 0/+100% RH
Supply	: 230 Vac; 50/60 Hz (-10/+5%).
Used power	: 9 VA
Store temperature	: -20/+60°C
Operation temperature	: -20/+50°C
Operating rel. humidity	: 10/+90 % RH not condensing
Accuracy	: ± 0,5 % of the range

Front

Display	: 4-number digital display for humidity read-out 4-number digital display for the setpoint
LED	: F1 = LED Hygrostat 1 active F2 = LED Hygrostat 2 active F3 = LED Hygrostat 3 active F4 = LED Hygrostat 4 active ☾ = LED Night mode active ☑ = LED Alarm active S1 = LED Setpoint 1 in display S2 = LED Setpoint 2 in display S3 = LED Setpoint 3 in display S4 = LED Setpoint 4 in display
Keys	: ON/OFF = On/Off key controller SETP = Setpoint push button ▲ = Up key ▼ = Down key PRG = Program key SENS = Sensor read-out key

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In- and outputs

Sensors	: Humidity sensor 1 (3-wire, V+=12V, Sign.:0-1V, 0V) Humidity sensor 2 (3-wire, V+=12V, Sign.:0-1V, 0V) Humidity sensor 3 (3-wire, V+=12V, Sign.:0-1V, 0V) Humidity sensor 4 (3-wire, V+=12V, Sign.:0-1V, 0V)
Digital inputs	: Night offset input (potential free input contact) External alarm input (potential free input contact)
Analog output	: 2x 0/+10Vdc, Rbmin 10Kohm, programmable.
Relay outputs	: RY1 Alarm (C/NO/NC, 250Vac/10A not inductive) Normally C-NO is closed, at alarm C-NC is closed. The next relays have a central common; RY2 Relay 2 programmable (NO, 250Vac/10A not inductive) RY3 Relay 3 programmable (NO, 250Vac/10A not inductive) RY4 Relay 4 programmable (NO, 250Vac/10A not inductive) RY5 Relay 5 programmable (NO, 250Vac/10A not inductive)

2 Functional specifications.

To the MC 795D hygrostat a maximum of four humidity sensors can be connected. These sensors can be used as control sensor, info sensor or alarm sensor.

A maximum for four different setpoints can be programmed.

The MC 795D has the control functions dehumidifying or humidifying. Also has the controller an alarm relay, which becomes active as soon as the alarm levels are exceeded, a sensor is broken or the external alarm input is closed.

The MC 795D has two analog outputs with a range of 0/+10Vdc. The function of these outputs can be programmed as measuring signal, setpoint signal or a P(I) control for dehumidifying or humidifying.

The controller has two digital input contacts. The first contact is used as night offset input, the second contact as external alarm.

The above mentioned settings are made via the Internal Parameters.

To allow also other combinations between setpoints, sensor and relays, there is the Advanced Programming. This mode is only advisable for advanced users.

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3 Control of the thermostat.

Normally the displays show the measured humidity and the selected setpoint.

Switching the thermostat on and off.

With the **ON/OFF** key the MC 795D can be switched on and off. Is the hygostat switched off, all displays are off. No control function is active.

Select and change humidity setpoint.

With the **UP** and **DOWN** keys the desired setpoint can be selected. The LED's next to the setpoint display indicate which setpoint is shown.

By pushing the **SETPOINT** key, the setpoint starts flashing. With the **UP** and **DOWN** keys the setpoint can be changed. By pressing the **SETPOINT** key again, the new setpoint is accepted.

Read-out and switching sensors on and off.

By pressing the **SENS** key the humidity of the first sensor is shown in the upper display.

The lower display shows the number of the sensor and of the sensor is switched on or off. 'S1on' means that the humidity of sensor 1 is shown and that the sensor is switched on.

Sensors that are switched on are used for the control, switched off sensors not. If more sensors for a hygostat are switched on, the control is based on the average of those sensors.

If during the read-out of a sensor is pressed on the **SETP** key, a sensor can be switched on or switched off.

By pressing the **SENS** key once again, the next sensor is shown. After all sensors are shown, the average measured humidity and the setpoint are shown in the display.

Reset the alarm.

As soon as an alarm situation occurs and an error message appears on the display can, by pressing the **RESET ALARM** key, the alarm be reset.

The error message remains in the display, until the cause of the error is solved.

Day/night input.

If the **NIGHT** input is closed, the MC 795D turns to the night mode. The **NIGHT** LED will light.

The setpoints are increased with the night offset.

External alarm input.

If the external alarm input is closed, an alarm message "FE" appears in the display. The alarm relay is activated. By pressing the **RESET ALARM** key, the alarm be reset. The error message remains in the display, until the cause of the error is solved.

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4 Programming internal settings.

By pressing the **RESET ALARM** and **SENS** key simultaneously for more than 5 seconds, the Internal Parameter menu is entered. The humidity display shows a P with a number. With the **UP** and **DOWN** key the desired parameter can be selected.

The setpoint display shows the value of the parameter. By pressing the **SETPOINT** key simultaneously with the **UP** or **DOWN** key, the value can be adjusted.

The parameter table shows the normal programming functions of the hygrostat. It is possible to make other combinations between sensors, setpoints and relays. For these advanced programming function please see chapter 8 'Advanced Programming'.

If during 30 seconds no key is touched, the display returns to the normal operating mode.

Parameter table.

Number	Description	Range	Value	Default
Function of the hygrostat				
P 01	Function hygrostat 0 = 1 setp, 1 relay (D) 1 = 1 setp, 2 relay (D21) 2 = 2 setp, 2 relay (D22) 3 = 1 setp, 3 relay (D31) 4 = 3 setp, 3 relay (D33) 5 = 1 setp, 4 relay (D41) 6 = 4 setp, 4 relay (D44)	0..6	-	0
Settings of the sensors				
P 11	Sensor 1 0 = absent 1 = present	0..1	-	0
P 12	Sensor 2	0..1	-	0
P 13	Sensor 3	0..1	-	0
P 14	Sensor 4	0..1	-	0
P 15	Offset humidity sensor 1	-10..+10	% RH	0.0
P 16	Offset humidity sensor 2	-10..+10	% RH	0.0
P 17	Offset humidity sensor 3	-10..+10	% RH	0.0
P 18	Offset humidity sensor 4	-10..+10	% RH	0.0
Setting of the relays				
P 21	Function relay 2 0 = dehumidifying 1 = humidifying	0..1	-	0
P 22	Differential relay 2	0.1..15.0	% RH	0.5
P 23	Offset relay 2	-15..+15	% RH	0.0
P 24	Function relay 3	0..1	-	0
P 25	Differential relay 3	0.1..15.0	% RH	0.5
P 26	Offset relay 3	-15..+15	% RH	0.0
P 27	Function relay 4	0..1	-	0
P 28	Differential relay 4	0.1..15.0	% RH	0.5
P 29	Offset relay 4	-15..+15	% RH	0.0
P 30	Function relay 5	0..1	-	0
P 31	Differential relay 5	0.1..15.0	% RH	0.5
P 32	Offset relay 5	-15..+15	% RH	0.0

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Number	Description	Range	Value	Default
Setting of the alarm				
P 41	Type humidity alarm 0 = No alarm 1 = Absolute alarm 2 = Relative to setpoint	0..2	-	1
P 42	Minimum alarm value	-100..+100	% RH	0.0
P 43	Maximum alarm value	0..+100	% RH	+100.0
P 44	Minimum alarm delay	0..99	minutes	0
P 45	Maximum alarm delay	0..99	minutes	0
P 46	Humidity control off during minimum alarm	0 = no 1 = yes	-	0
P 47	Humidity control off during minimum alarm	0 = no 1 = yes	-	0
P 48	Humidity control off if all sensors at fault	0 = no 1 = yes	-	0
P 49	Control off during external alarm	0 = no 1 = yes	-	0
Display and setpoint				
P 51	Minimum setpoint value	0.0..+100.0	% RH	0.0
P 52	Maximum setpoint value	0.0..+100.0	% RH	+100.0
P 53	Read-out per 0,1% RH	0 = no 1 = yes	-	0
P 55	Offset night shift	-15..+15	% RH	0.0
Setting analog outputs				
P 61	Function analog output 1 0 = Average control temp. 1 = Setpoint 2 = P(I) dehumidifying 3 = P(I) humidifying	0..3	-	0
P 62	0 V out at	-100..+100	-	0.0
P 63	10 V out at	-100..+100	-	+100.0
P 64	Proportional band	0.1..15	-	1.0
P 65	Offset prop. band	-15..+15	-	0.0
P 66	Intergral value (999 gives only P)	1..999	minutes	999
P 71	Function analog output 2 0 = Average control temp. 1 = Setpoint 2 = P(I) dehumidifying 3 = P(I) humidifying	0..3	-	0
P 72	0 V out at	-100..+100	-	0.0
P 73	10 V out at	-100..+100	-	+100.0
P 74	Proportional band	0.1..15	-	1.0
P 75	Offset prop. band	-15..+15	-	0.0
P 76	Intergral value (999 gives only P)	1..999	minutes	999
Production details				
P 91	Software version number	-	-	-
P 92	Serial number	-	-	-
P 93	Production date	-	year/wk	-

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5 Operation relay outputs.

Function selection of the hygostat.

With parameter P 01 the function of the hygostat is selected.

- 0 (D) = 1-stage hygostat with one setpoint and one relay output.
- 1 (D21) = 2-stage hygostat with one setpoint and two relay outputs.
- 2 (D22) = 2 hygostats each with his own setpoint and relay output.
- 3 (D31) = 3-stage hygostat with one setpoint and two relay outputs.
- 4 (D33) = 3 hygostats each with his own setpoint and relay output.
- 5 (D41) = 4-stage hygostat with one setpoint and two relay outputs.
- 6 (D44) = 4 hygostats each with his own setpoint and relay output.

All these hygostats control on the average humidity off the active sensors.

Operation of the dehumidifying or humidifying.

For each relay the function dehumidifying or humidifying can be programmed.

The dehumidifying switches on if the humidity is higher than the **setpoint + offset dehumidifying + differential dehumidifying** and switches off if the humidity is below **setpoint + offset dehumidifying**.

The heating switches on if the humidity is lower than the **setpoint + offset humidifying - differential humidifying** and switches off if the humidity is above **setpoint + offset humidifying**.

Operation of the alarm.

A selection can be made between no alarm, absolute alarm and relative alarm (P 41).

At an absolute alarm an alarm message will follow as soon as one of the active sensor exceeds the alarm levels. The time delay prevents that an alarm will follow if e.h. the door of the cold room is opened shortly.

The relative alarm are linked to the setpoint. A relative maximum alarm follows if one of the active sensors has a humidity which is higher than **setpoint + maximum alarm value**, taking the time delay into account. A relative minimum alarm follows if one of the active sensors has a humidity which is lower than **setpoint - minimum alarm value**, taking the time delay into account.

Display and setpoint.

The range over which the setpoint can be set, can be limited with parameter P 51 and P52.

Also a read-out per 0,1% RH or per 1% RH can be selected.

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6 Sensor calibration.

With the parameters P15 to P18 the humidity sensors can be calibrated. Indicates humidity sensor 1 e.g. 2% Rh too much, the offset (P 15) should be set at -2% RH.

7 Alarms.

In normal position the alarm relay is on and drops during alarm. This to give an alarm if there is a power failure. During alarm the alarm LED on the front flashes. Depending on the settings of the Internal Parameters the control will stop or continue.

An alarm can be caused by:

Humidity alarm : rLO = Minimum alarm humidity
 rHI = Maximum alarm humidity

External alarm : FE = External alarm

Sensor failure : F1 = No Humidity sensor on Hygrostat-1
 F2 = No Humidity sensor on Hygrostat-2
 F3 = No Humidity sensor on Hygrostat-3
 F4 = No Humidity sensor on Hygrostat-4

E1 = Humidity sensor 1 broken
 E2 = Humidity sensor 2 broken
 E3 = Humidity sensor 3 broken
 E4 = Humidity sensor 4 broken

EA = All control sensors at fault

By pressing the **RESET ALARM** key, the alarm relay is reset. The error message will remain in the display until the alarm is solved. Also the alarm LED will remain flashing.

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8 Advanced Programming.

By pressing the **SETP.** and **SENS** key simultaneously for more than 5 seconds, the Advanced Parameter menu is entered. The humidity display shows an A with a number. With the **UP** and **DOWN** key the desired parameter can be selected. At first A001 must be set to 1 to make the Advanced Programming active.

Now all A... parameters can be set. All P... parameters are not active, they can't be looked at or changed (Only as A001 =0 the P.. Parameters can be set or shown again).

The setpoint display shows the value of the parameter. By pressing the **SETPOINT** key simultaneously with the **UP** and **DOWN** key, the value can be adjusted.

If during 30 seconds no key is touched, the display returns to the normal operating mode.

Unless stated else, 0 = NO and 1 = YES.

Parameter table.

Number	Description	Range	Value	Default
General				
A 001	Advanced programming active	0..1	-	0
A 002	Software version number	-	-	-
A 003	Serial number	-	-	-
A 004	Production date	-	year/wk	-
Number of hygrostats				
A 010	Number of hygrostats	1..4	-	1
A 011	Hygrostat 1 is used as differential hygrostat	0..1	-	0
A 012	Hygrostat 2 is used as differential hygrostat	0..1	-	0
Sensor assignment				
A 110	Sensor 1 0 = not present 1 = hygrostat 1 2 = hygrostat 2 3 = hygrostat 3 4 = hygrostat 4 5 = hygrostat 1 & 2 6 = hygrostat 1 & 3 7 = hygrostat 1 & 4 8 = hygrostat 2 & 3 9 = hygrostat 2 & 4 10 = hygrostat 3 & 4 11 = hygrostat 1, 2 & 3 12 = hygrostat 1, 2 & 4 13 = hygrostat 1, 3 & 4 14 = hygrostat 2, 3 & 4 15 = hygrostat 1, 2, 3 & 4	0..15	-	1
A 120	Sensor 2	0..15	-	1
A 130	Sensor 3	0..15	-	1
A 140	Sensor 4	0..15	-	1

When Hygrostat 1 is used as differential hygrostat it controls on the differential humidity of sensor 1 minus sensor 2.

When Hygrostat 2 is used as differential hygrostat it controls on the differential humidity of sensor 3 minus sensor 4.

The sensor has to be assigned accordantly.

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Number	Description	Range	Value	Default
Sensor offset				
A 210	Offset humidity sensor 1	-10..+10	% RH	0.0
A 220	Offset humidity sensor 2	-10..+10	% RH	0.0
A 230	Offset humidity sensor 3	-10..+10	% RH	0.0
A 240	Offset humidity sensor 4	-10..+10	% RH	0.0
Relay assignment				
A 310	Relay 2 0 = not assigned 1 = hygrostat 1 2 = hygrostat 2 3 = hygrostat 3 4 = hygrostat 4 5 = hygrostat 1 & 2 6 = hygrostat 1 & 3 7 = hygrostat 1 & 4 8 = hygrostat 2 & 3 9 = hygrostat 2 & 4 10 = hygrostat 3 & 4 11 = hygrostat 1, 2 & 3 12 = hygrostat 1, 2 & 4 13 = hygrostat 1, 3 & 4 14 = hygrostat 2, 3 & 4 15 = hygrostat 1, 2, 3 & 4	0..15	-	1
A 320	Relay 3	0..15	-	1
A 330	Relay 4	0..15	-	1
A 340	Relay 5	0..15	-	1
Function of hygrostats				
A 410	Function hygrostat 1 0 = dehumidifying 1 = humidifying	0..1	-	0
A 420	Function hygrostat 2	0..1	-	0
A 430	Function hygrostat 3	0..1	-	0
A 440	Function hygrostat 4	0..1	-	0
A 510	Differential hygrostat 1	0.1..15.0	% RH	0.5
A 511	Offset hygrostat 1	-15..+15	% RH	0.0
A 520	Differential hygrostat 2	0.1..15.0	% RH	0.5
A 521	Offset hygrostat 2	-15..+15	% RH	0.0
A 530	Differential hygrostat 3	0.1..15.0	% RH	0.5
A 531	Offset hygrostat 3	-15..+15	% RH	0.0
A 540	Differential hygrostat 4	0.1..15.0	% RH	0.5
A 541	Offset hygrostat 4	-15..+15	% RH	0.0

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Number	Description	Range	Value	Default
Setting of the alarms				
A 610	Alarm setting hygrostat 1 0 = No alarm 1 = Absolute alarm 2 = Relative alarm	0..2	-	0
A 611	Minimum alarm value	-100..+100	% RH	0.0
A 612	Maximum alarm value	0..+100	% RH	+100.0
A 613	Minimum alarm delay	0..99	minutes	0
A 614	Maximum alarm delay	0..99	minutes	0
A 615	Control off at minimum alarm	0..1	-	0
A 616	Control off at maximum alarm	0..1	-	0
A 620	Alarm setting hygrostat 2	0..2	-	0
A 621	Minimum alarm value	-100..+100	% RH	0.0
A 622	Maximum alarm value	0..+100	% RH	+100.0
A 623	Minimum alarm delay	0..99	minutes	0
A 624	Maximum alarm delay	0..99	minutes	0
A 625	Control off at minimum alarm	0..1	-	0
A 626	Control off at maximum alarm	0..1	-	0
A 630	Alarm setting hygrostat 3	0..2	-	0
A 631	Minimum alarm value	-100..+100	% RH	0.0
A 632	Maximum alarm value	0..+100	% RH	+100.0
A 633	Minimum alarm delay	0..99	minutes	0
A 634	Maximum alarm delay	0..99	minutes	0
A 635	Control off at minimum alarm	0..1	-	0
A 636	Control off at maximum alarm	0..1	-	0
A 640	Alarm setting hygrostat 4	0..2	-	0
A 641	Minimum alarm value	-100..+100	% RH	0.0
A 642	Maximum alarm value	0..+100	% RH	+100.0
A 643	Minimum alarm delay	0..99	minutes	0
A 644	Maximum alarm delay	0..99	minutes	0
A 645	Control off at minimum alarm	0..1	-	0
A 646	Control off at maximum alarm	0..1	-	0
A 650	Humidity control off if all control sensors at fault	0..1	-	0
A 651	Humidity control off at external alarm	0..1	-	0
Display and setpoint				
A 710	Minimum setpoint hygrostat 1	0..+100	% RH	0.0
A 711	Maximum setpoint hygrostat 1	0..+100	% RH	+100.0
A 712	Read-out per 0,1% RH	0..1	-	0
A 713	Offset night mode hygrostat 1	-15..+15	% RH	0.0
A 720	Minimum setpoint hygrostat 2	0..+100	% RH	0.0
A 721	Maximum setpoint hygrostat 2	0..+100	% RH	+100.0
A 722	Read-out per 0,1% RH	0..1	-	0
A 723	Offset night mode hygrostat 2	-15..+15	% RH	0.0
A 730	Minimum setpoint hygrostat 3	0..+100	% RH	0.0
A 731	Maximum setpoint hygrostat 3	0..+100	% RH	+100.0
A 732	Read-out per 0,1% RH	0..1	-	0
A 733	Offset night mode hygrostat 3	-15..+15	% RH	0.0
A 740	Minimum setpoint hygrostat 4	0..+100	% RH	0.0
A 741	Maximum setpoint hygrostat 4	0..+100	% RH	+100.0
A 742	Read-out per 0,1% RH	0..1	-	0
A 743	Offset night mode hygrostat 4	-15..+15	% RH	0.0

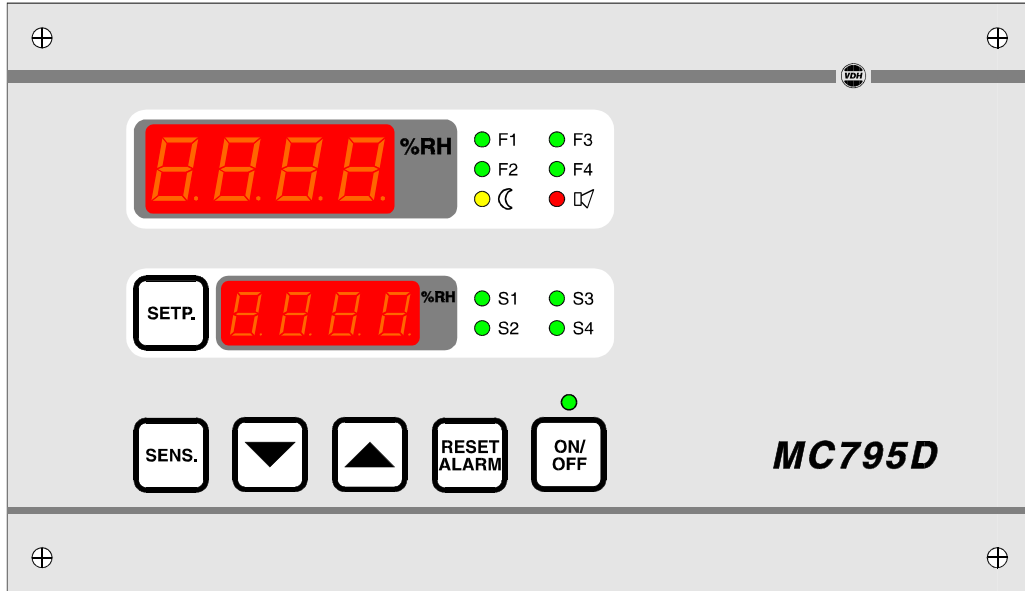
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Number	Description	Range	Value	Default
Analog output 1				
A 810	Function analog output 1 0 = Control temp. hygrostat 1 1 = Control temp. hygrostat 2 2 = Control temp. hygrostat 3 3 = Control temp. hygrostat 4 4 = Setpoint hygrostat 1 5 = Setpoint hygrostat 2 6 = Setpoint hygrostat 3 7 = Setpoint hygrostat 4 8 = Humidity sensor 1 9 = Humidity sensor 2 10 = Humidity sensor 3 11 = Humidity sensor 4 12 = P(ID) dehumidifying hygrostat 1 13 = P(ID) dehumidifying hygrostat 2 14 = P(ID) dehumidifying hygrostat 3 15 = P(ID) dehumidifying hygrostat 4 16 = P(ID) humidifying hygrostat 1 17 = P(ID) humidifying hygrostat 2 18 = P(ID) humidifying hygrostat 3 19 = P(ID) humidifying hygrostat 4	0..19	-	0
A 811	0 V out at	-100..+100	-	0.0
A 812	10 V out at	-100..+100	-	+100.0
A 813	Proportional band	0.1..15	-	1.0
A 814	Offset proportional band	-15..+15	-	0.0
A 815	Integral value (999 = P)	1..999	minutes	999
A 816	Differential value	0..999	minutes	0
Analog output 2				
A 820	Function analog output 2 0 = Control temp. hygrostat 1 1 = Control temp. hygrostat 2 2 = Control temp. hygrostat 3 3 = Control temp. hygrostat 4 4 = Setpoint hygrostat 1 5 = Setpoint hygrostat 2 6 = Setpoint hygrostat 3 7 = Setpoint hygrostat 4 8 = Humidity sensor 1 9 = Humidity sensor 2 10 = Humidity sensor 3 11 = Humidity sensor 4 12 = P(ID) dehumidifying hygrostat 1 13 = P(ID) dehumidifying hygrostat 2 14 = P(ID) dehumidifying hygrostat 3 15 = P(ID) dehumidifying hygrostat 4 16 = P(ID) humidifying hygrostat 1 17 = P(ID) humidifying hygrostat 2 18 = P(ID) humidifying hygrostat 3 19 = P(ID) humidifying hygrostat 4	0..19	-	0
A 821	0 V out at	-100..+100	-	0.0
A 822	10 V out at	-100..+100	-	+100.0
A 823	Proportional band	0.1..15	-	1.0
A 824	Offset proportional band	-15..+15	-	0.0
A 825	Integral value (999 = P)	1..999	minutes	999
A 826	Differential value	0..999	minutes	0

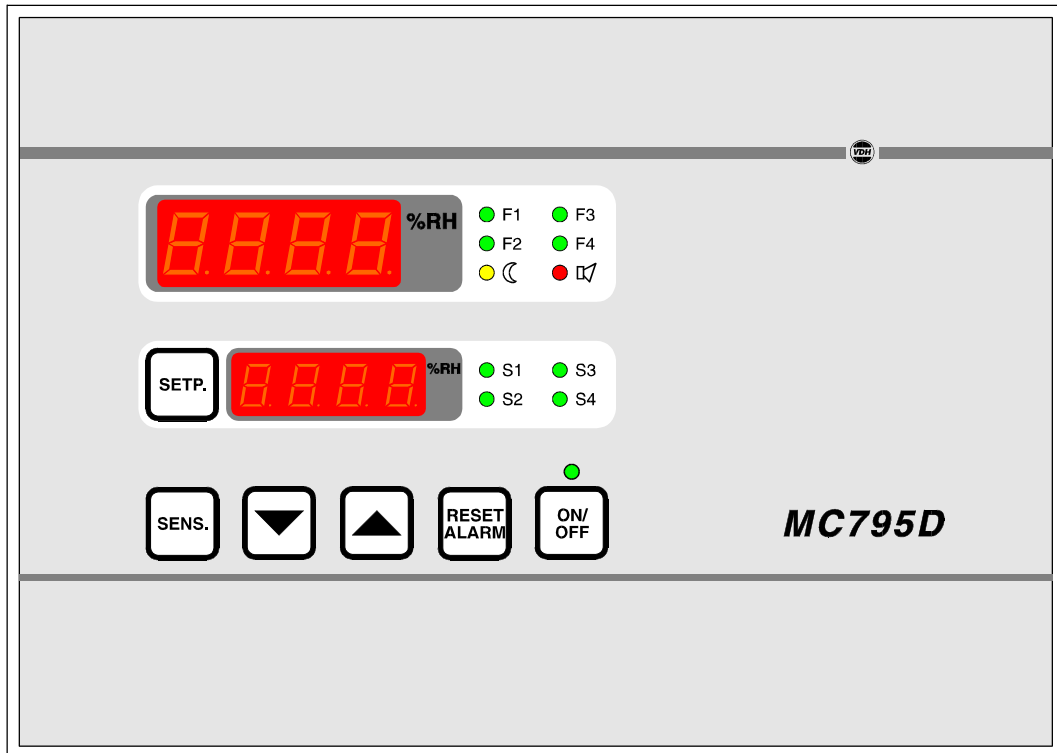
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9 Front views.

Front view MC 795D wall mount drawing 981714



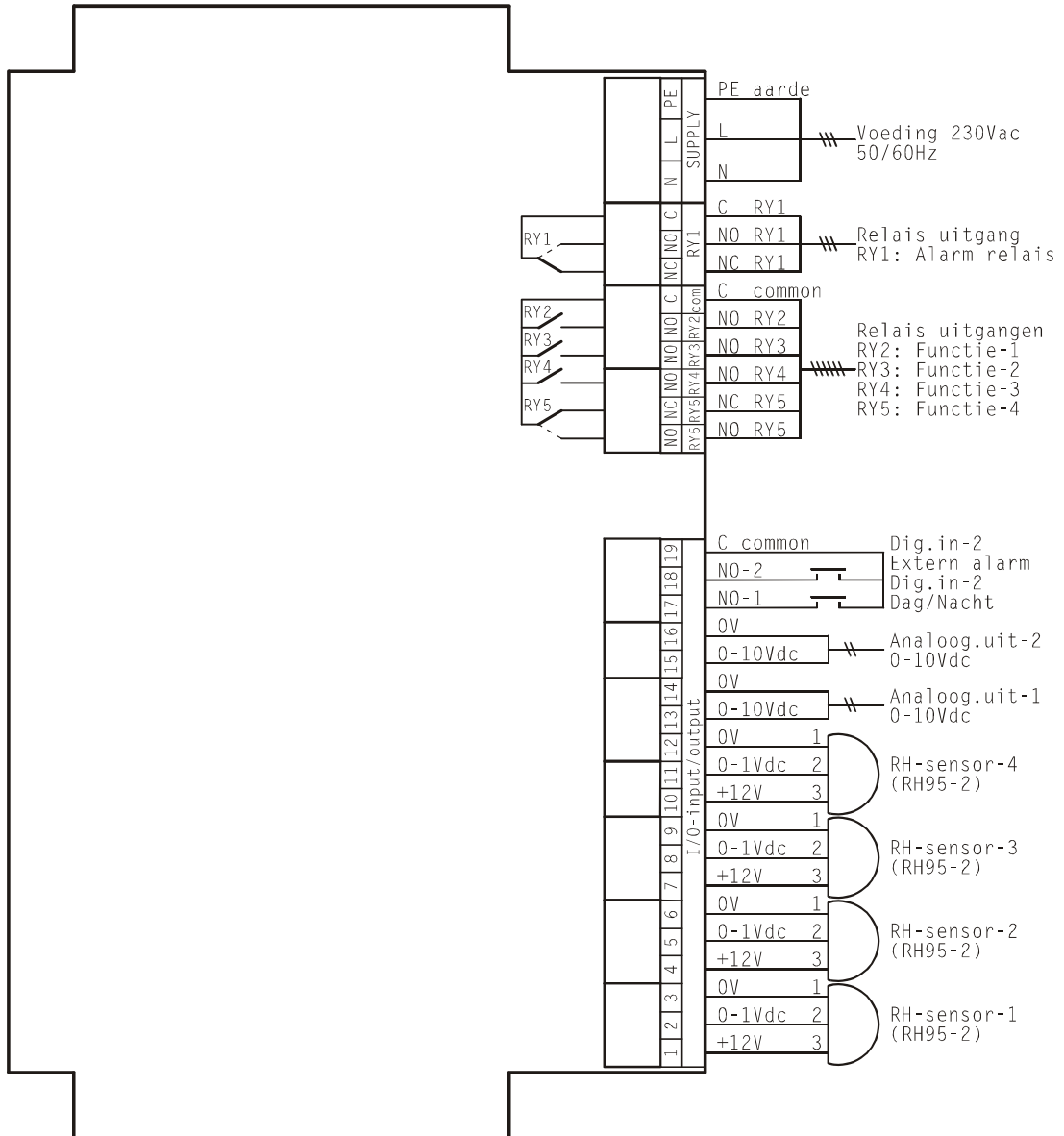
Front view MC 795D panel mount drawing 981700



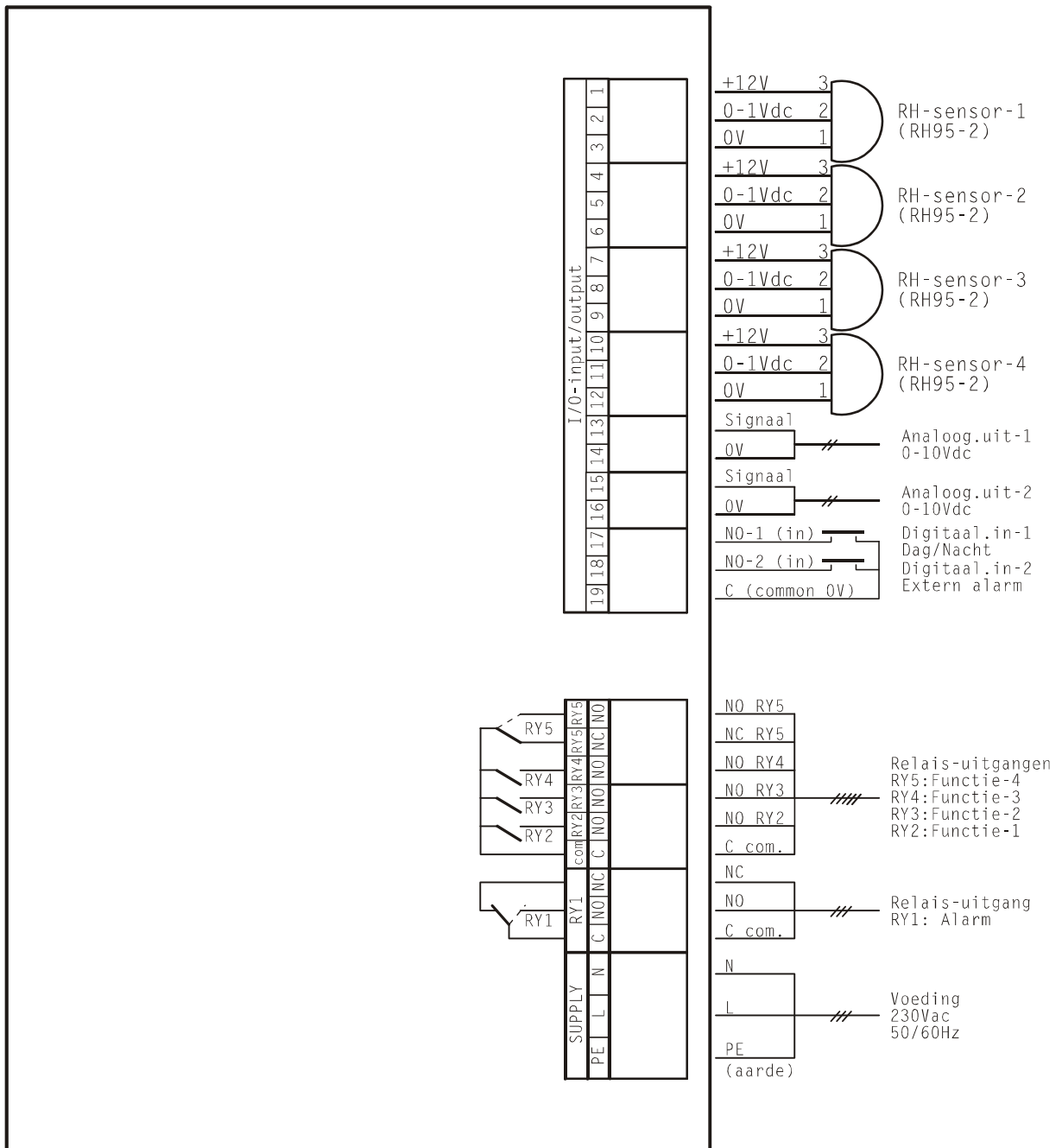
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10 Connection diagrams.

Connection diagram MC 795D wall mount drawing 981715



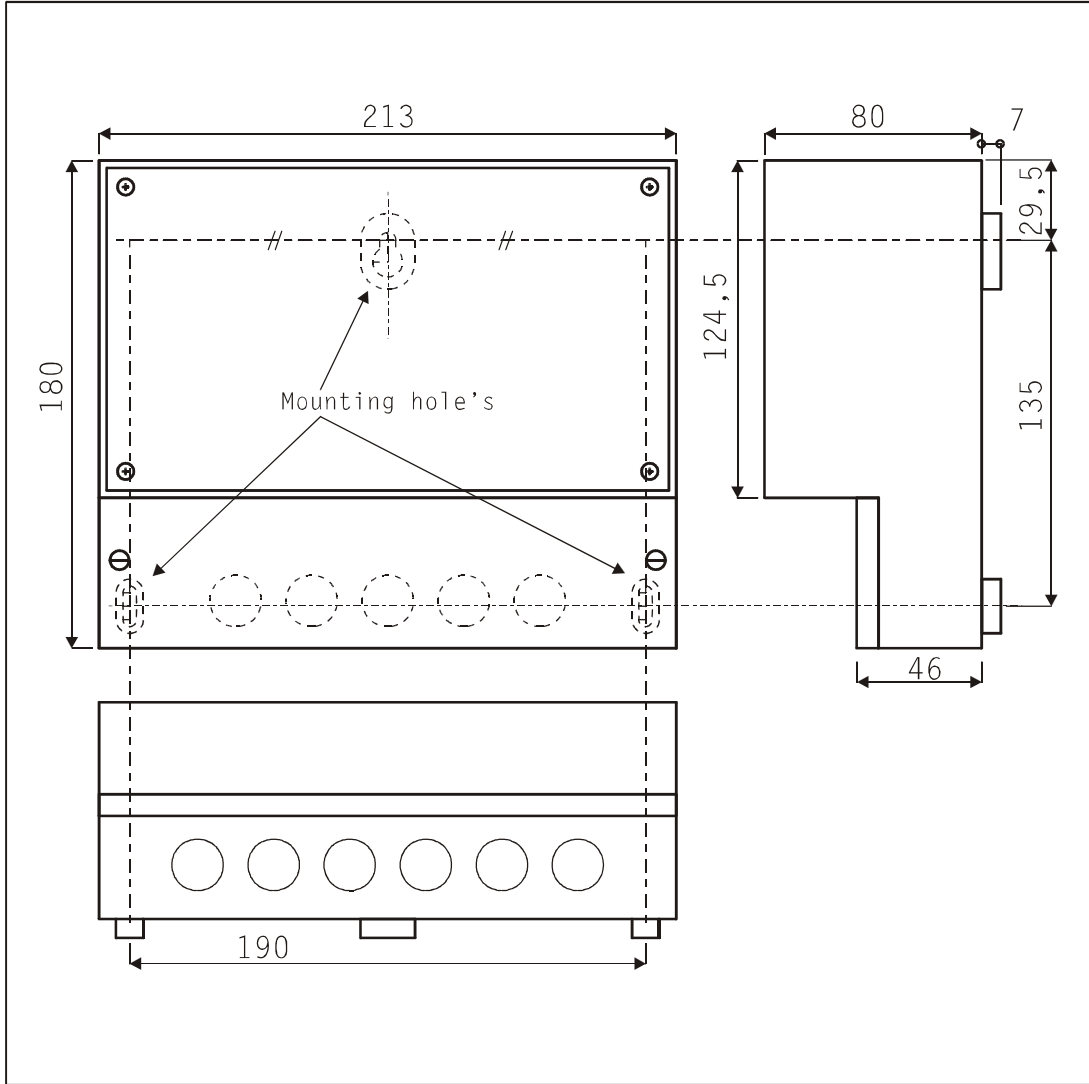
Connection diagram MC 795D panel mount drawing 981702



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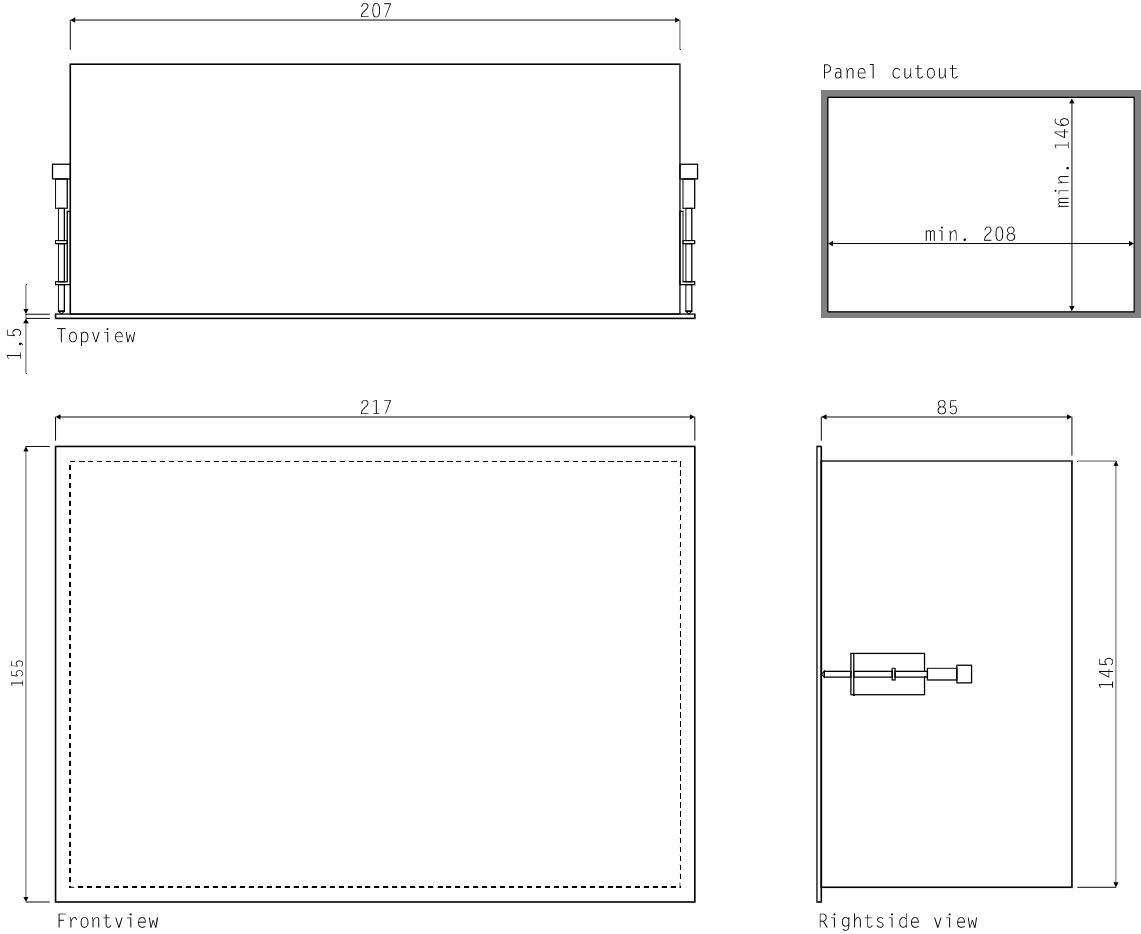
11 Dimensions.

Dimensions wall mount drawing 940024



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Dimensions Panel mount drawing 961271



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