RDT 600

Applications

SAUTER

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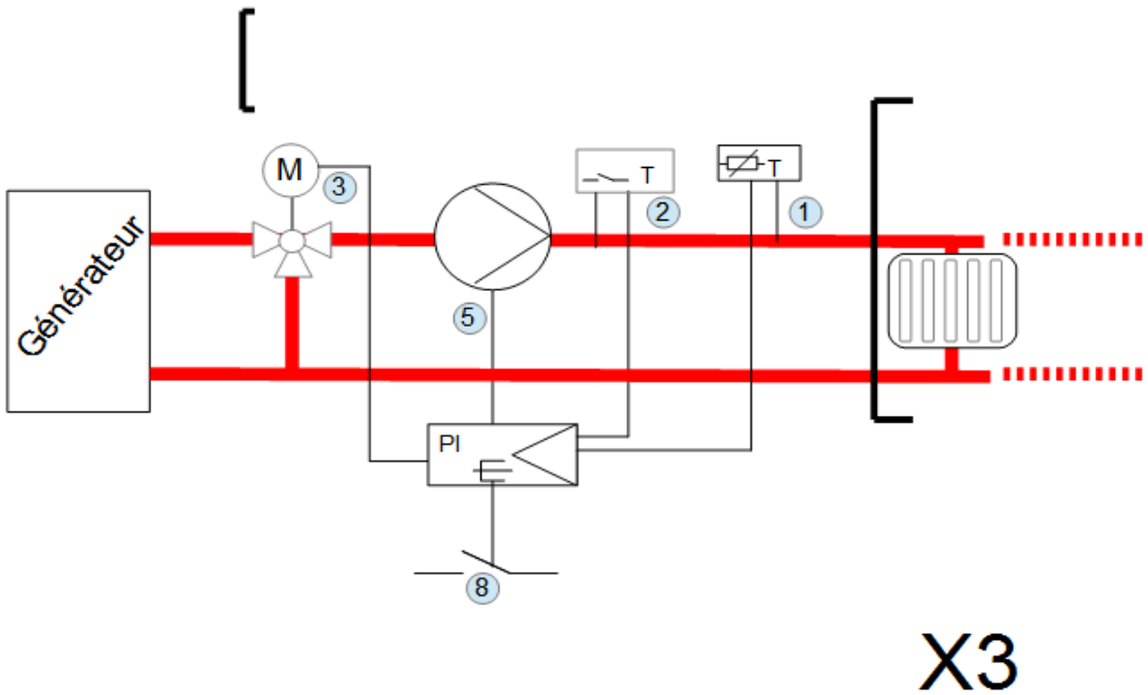
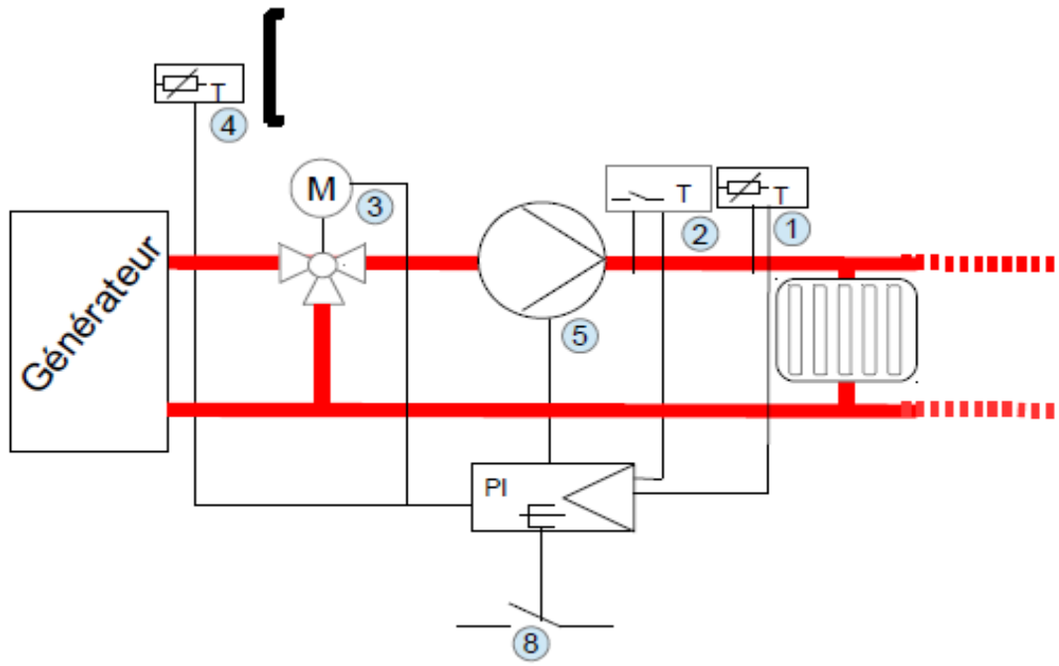
Heating

Case 01.001: 3 constant circuits



I/O	Terminal	Description	Figure
AI1	22-23	Temperature sensor, circuit 1 NI1000	1
AI2	24-25	Temperature sensor, circuit 2 NI1000	
AI3	26-27	Temperature sensor, circuit 3 NI1000	
AI4	28-29		
AI5 (0-10V)	30-31		
AI6 (0-10V)	32-33		
DI1	34-35	Safety thermostat / water low, circuit 1	2
DI2	36-35	Safety thermostat / water low, circuit 2	
DI3	37-35	Safety thermostat / water low, circuit 3	
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	Valve output, circuit 1	3
AO2	40-38	Valve output, circuit 2	
AO3	41-43	Valve output, circuit 3	
AO4	42-43		
DO11-12	06-07	Valve opening control, circuit 1	3
DO21-22	08-09	Valve closing control, circuit 1	3
DO31-32	10-11	Valve opening control, circuit 2	
DO41-42	12-13	Valve closing control, circuit 2	
DO51-52	14-15	Pump activation, circuit 1	5
DO61-62	16-17	Pump activation, circuit 2	
DO71-72	18-19	Pump activation, circuit 3	
DO81-82	20-21	Fault synthesis	8

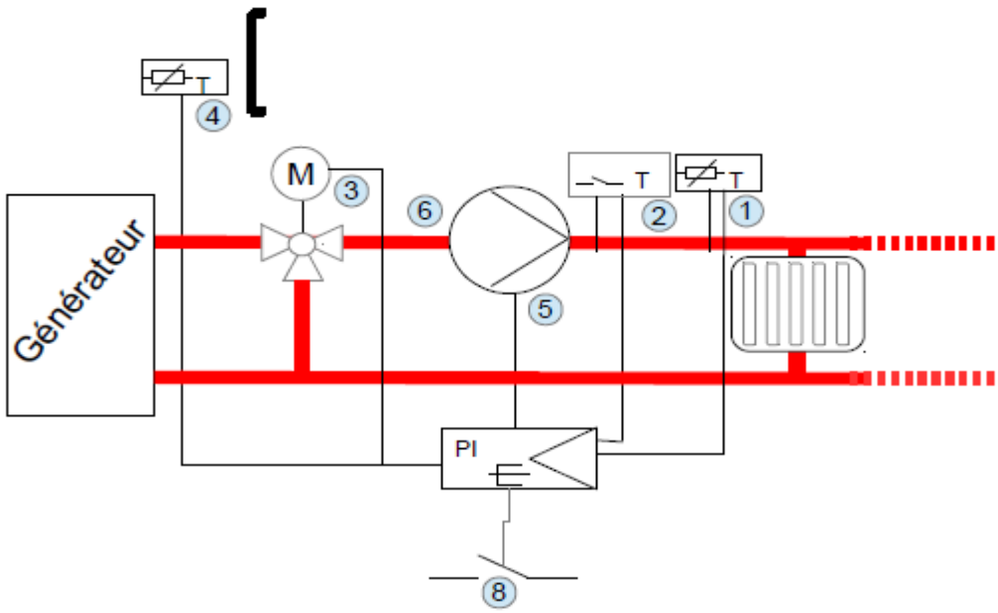
Case 01.002: 3 hot circuits according to the outdoor temperature



X3

I/O	Terminal	Description	Figure
AI1	22-23	Temperature sensor, circuit 1 NI1000	1
AI2	24-25	Temperature sensor, circuit 2 NI1000	
AI3	26-27	Temperature sensor, circuit 3 NI1000	
AI4	28-29	Outside temperature sensor	4
AI5 (0-10V)	30-31		
AI6 (0-10V)	32-33	Setpoint or outside temperature input via other controller	
DI1	34-35	Safety thermostat / water low, circuit 1	2
DI2	36-35	Safety thermostat / water low, circuit 2	
DI3	37-35	Safety thermostat / water low, circuit 3	
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	Valve output, circuit 1	3
AO2	40-38	Valve output, circuit 2	
AO3	41-43	Valve output, circuit 3	
AO4	42-43	Output of setpoint or outdoor temperature for other RDT600	
DO11-12	06-07	Valve opening control, circuit 1	3
DO21-22	08-09	Valve closing control, circuit 1	3
DO31-32	10-11	Valve opening control, circuit 2	
DO41-42	12-13	Valve closing control, circuit 2	
DO51-52	14-15	Pump control, circuit 1	5
DO61-62	16-17	Pump control, circuit 2	
DO71-72	18-19	Pump control, circuit 3	
DO81-82	20-21	Fault synthesis	8

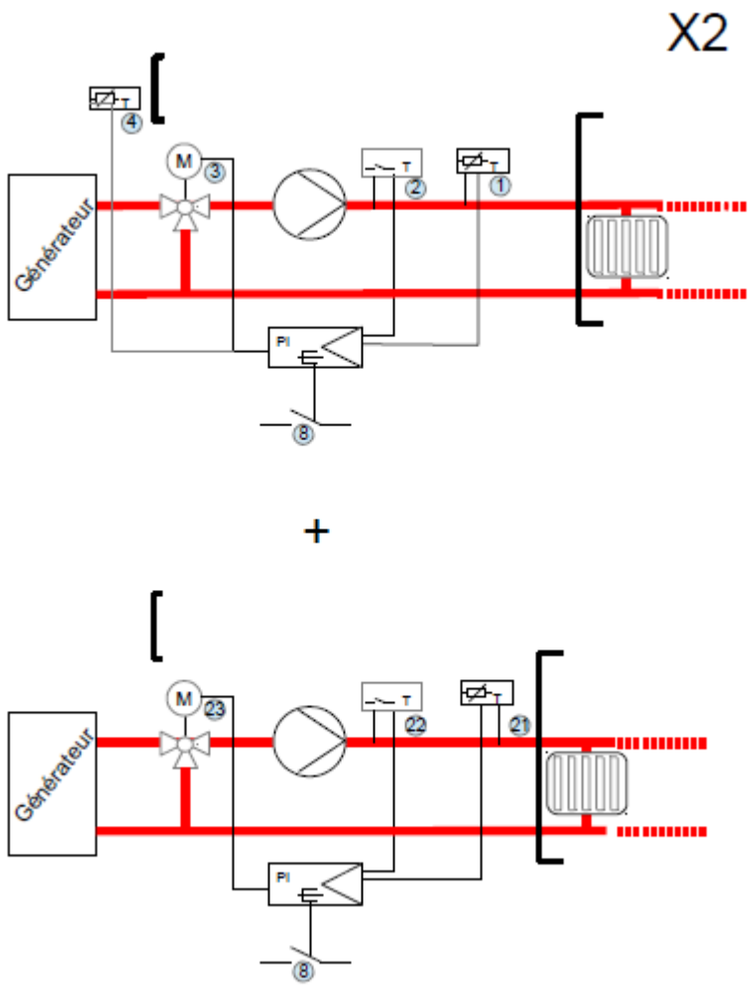
Case 01.003: 2 hot circuits depending on the outdoor temperature of the single pump with DHW priority



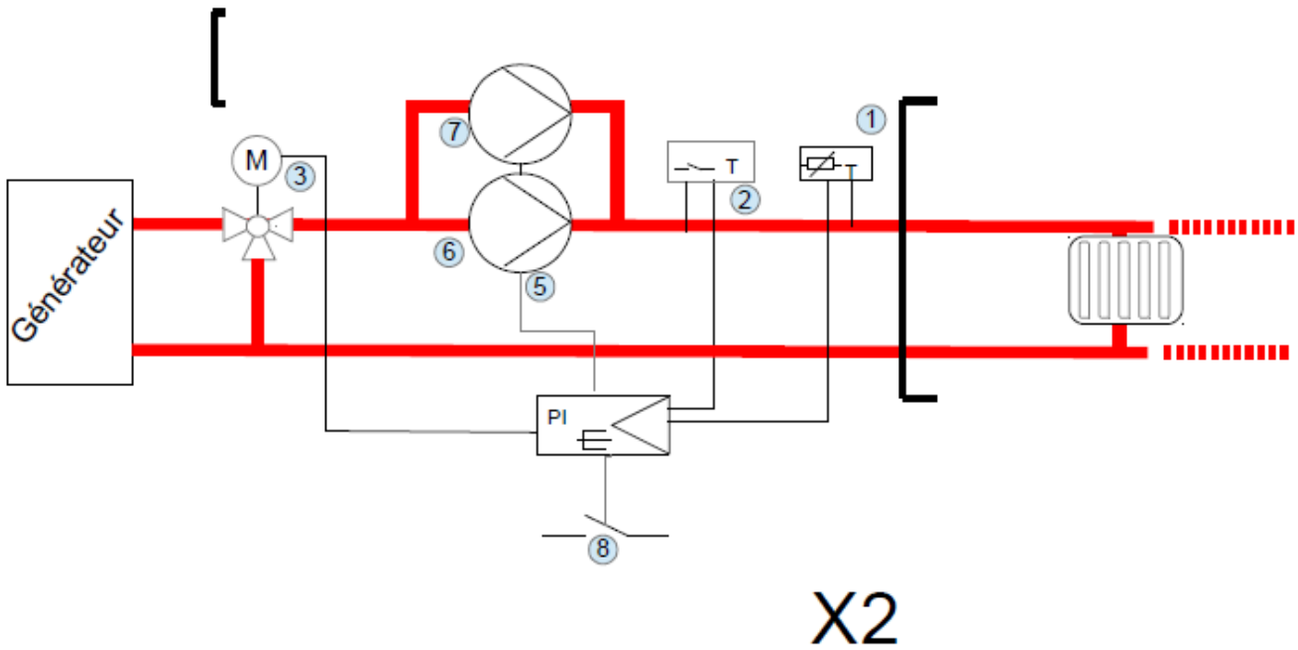
X2

I/O	Terminal	Description	Figure
AI1	22-23	Temperature sensor, circuit 1 NI1000	1
AI2	24-25	Temperature sensor, circuit 2 NI1000	
AI3	26-27	Water low	2
AI4	28-29	Outside temperature sensor	4
AI5 (0-10V)	30-31		
AI6 (0-10V)	32-33	Setpoint or outside temperature input via other controller	
DI1	34-35	Fault in pump 1	6
DI2	36-35	Fault in pump 2	
DI3	37-35	DHW priority	
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	Valve output, circuit 1	3
AO2	40-38	Valve output, circuit 2	
AO3	41-43		
AO4	42-43	Output of setpoint or outdoor temperature for other RDT600	
DO11-12	06-07	Valve opening control, circuit 1	3
DO21-22	08-09	Valve closing control, circuit 1	3
DO31-32	10-11	Valve opening control, circuit 2	
DO41-42	12-13	Valve closing control, circuit 2	
DO51-52	14-15	Pump operation, circuit 1	5
DO61-62	16-17	Pump operation, circuit 2	
DO71-72	18-19	Time programme 7	
DO81-82	20-21	Fault synthesis	8

Case 01.004: 2 hot circuits according to the outdoor temperature + 1 constant hot circuit

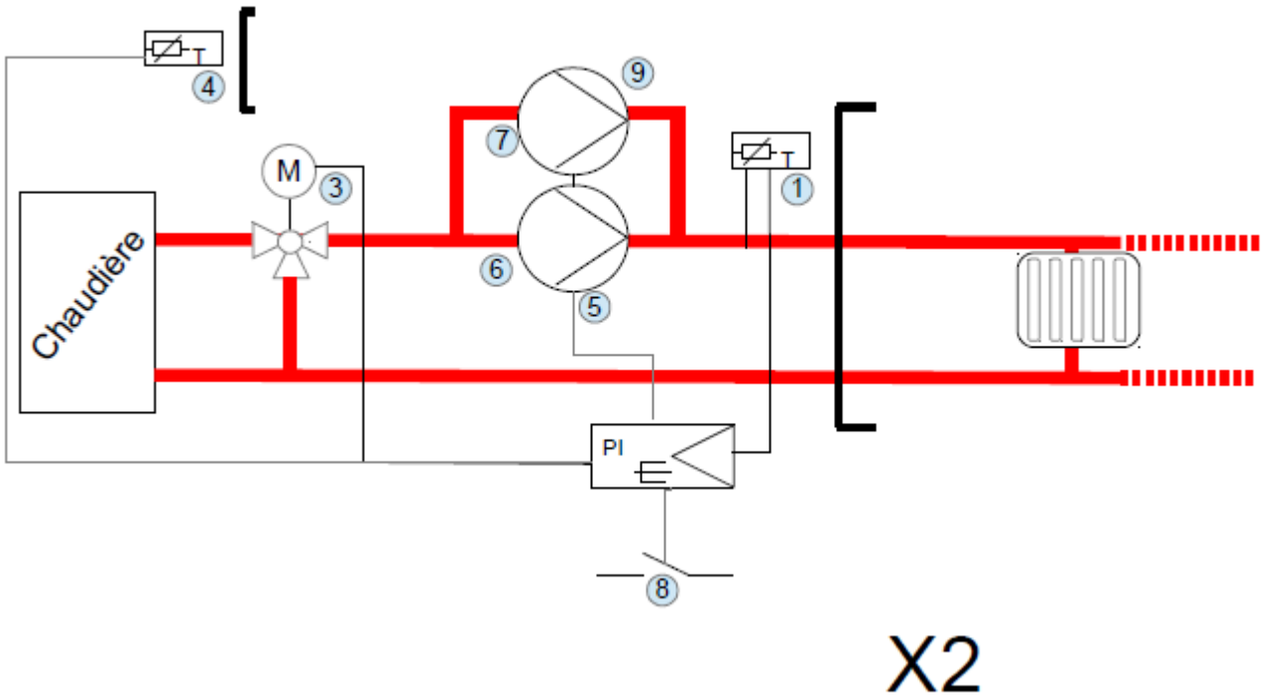


I/O	Terminal	Description	Figure
AI1	22-23	Temperature sensor, circuit 1 NI1000	1
AI2	24-25	Temperature sensor, circuit 2 NI1000	
AI3	26-27	Temperature sensor, circuit 3 NI1000	21
AI4	28-29	Outside temperature sensor	4
AI5 (0-10V)	30-31		
AI6 (0-10V)	32-33	Setpoint or outdoor temperature input via other controller	
DI1	34-35	Safety thermostat / water low, circuit 1	2
DI2	36-35	Safety thermostat / water low, circuit 2	
DI3	37-35	Safety thermostat / water low, circuit 3	22
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	Valve output, circuit 1	3
AO2	40-38	Valve output, circuit 2	
AO3	41-43	Valve output, circuit 3	23
AO4	42-43	Output of setpoint or outdoor temperature for other RDT600	
DO11-12	06-07	Valve opening control, circuit 1	3
DO21-22	08-09	Valve closing control, circuit 1	3
DO31-32	10-11	Valve opening control, circuit 2	
DO41-42	12-13	Valve closing control, circuit 2	
DO51-52	14-15	Valve opening control, circuit 3	23
DO61-62	16-17	Valve closing control, circuit 3	23
DO71-72	18-19	Time programme 7	
DO81-82	20-21	Fault synthesis	8



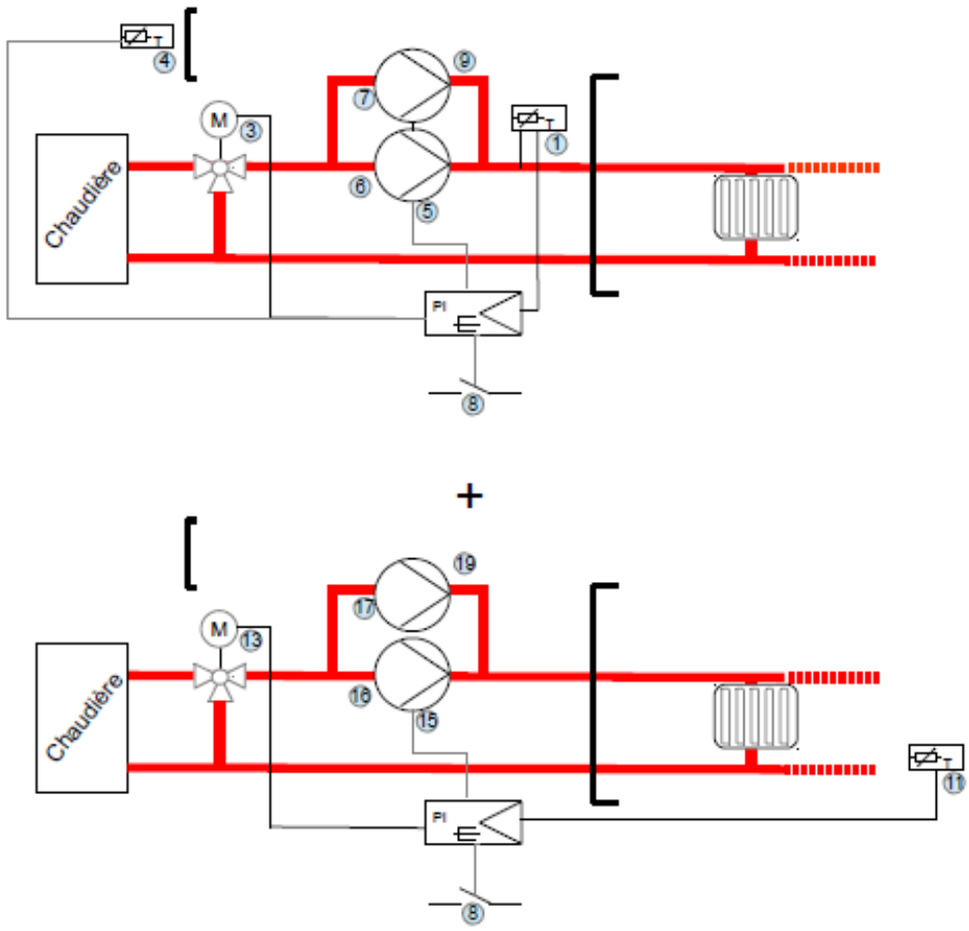
I/O	Terminal	Description	Figure
AI1	22-23	Temperature sensor, circuit 1 NI1000	1
AI2	24-25	Temperature sensor, circuit 2 NI1000	
AI3	26-27	Fault in pump, circuit 1	5
AI4	28-29	Fault in pump, circuit 2	
AI5 (0-10V)	30-31		
AI6 (0-10V)	32-33	Setpoint or outdoor temperature input via other controller	
DI1	34-35	Safety thermostat / water low, circuit 1	2
DI2	36-35	Safety thermostat / water low, circuit 2	
DI3	37-35		
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	Valve output, circuit 1	3
AO2	40-38	Valve output, circuit 2	
AO3	41-43	Malfunction synthesis at 100%	
AO4	42-43	Output of setpoint or outdoor temperature for other RDT600	
DO11-12	06-07	Control of pump 1, circuit 1	6
DO21-22	08-09	Control of pump 2, circuit 1	7
DO31-32	10-11	Valve opening control, circuit 1	3
DO41-42	12-13	Valve closing control, circuit 1	3
DO51-52	14-15	Control of pump 1, circuit 2	
DO61-62	16-17	Control of pump 2, circuit 2	
DO71-72	18-19	Valve opening control, circuit 2	
DO81-82	20-21	Valve closing control, circuit 2	

Case 01.006: 2 hot circuits with double pumps according to the outdoor temperature



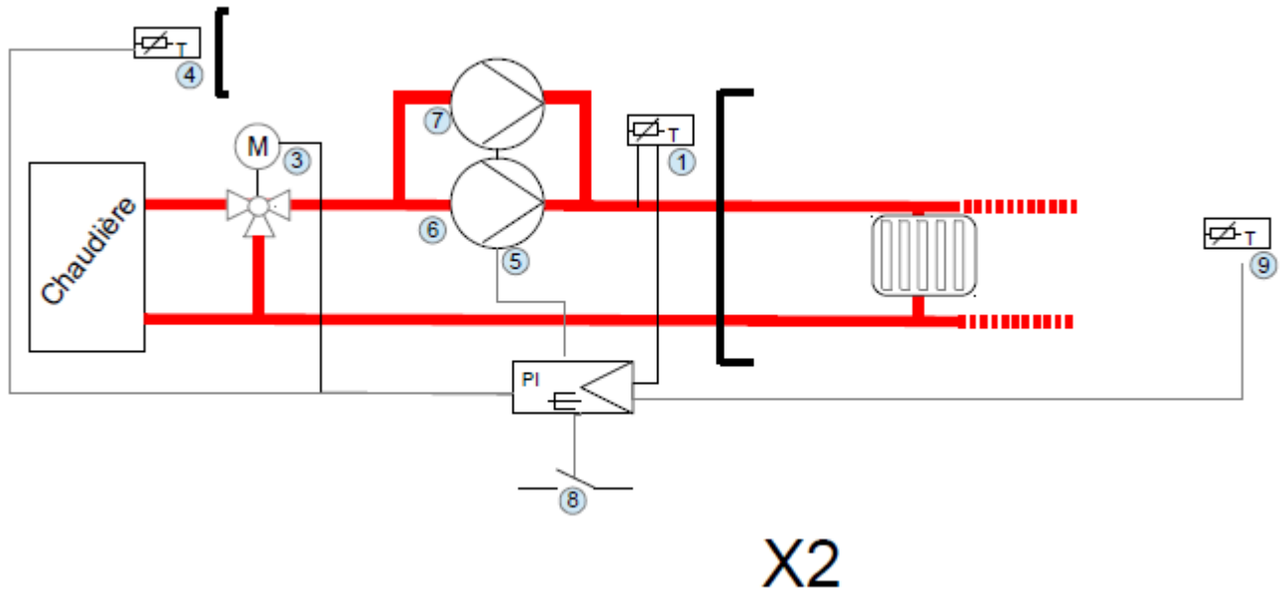
I/O	Terminal	Description	Figure
AI1	22-23	Temperature sensor, circuit 1 NI1000	1
AI2	24-25	Temperature sensor, circuit 2 NI1000	
AI3	26-27	Outdoor temperature sensor	4
AI4	28-29	Fault in pump 1, circuit 1	5
AI5 (0-10V)	30-31		
AI6 (0-10V)	32-33	Setpoint or outdoor temperature input via other controller	
DI1	34-35	Fault in pump 2, circuit 1	9
DI2	36-35	Fault in pump 1, circuit 2	
DI3	37-35	Fault in pump 2, circuit 2	
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	Valve output, circuit 1	3
AO2	40-38	Valve output, circuit 2	
AO3	41-43	Water rule setpoint, boiler	
AO4	42-43	Output of setpoint or outdoor temperature for other RDT600	
DO11-12	06-07	Control of pump 1, circuit 1	6
DO21-22	08-09	Control of pump 2, circuit 1	7
DO31-32	10-11	Valve opening control, circuit 1	3
DO41-42	12-13	Valve closing control, circuit 1	3
DO51-52	14-15	Control of pump 1, circuit 2	
DO61-62	16-17	Control of pump 2, circuit 2	
DO71-72	18-19	Valve opening control, circuit 2	
DO81-82	20-21	Valve closing control, circuit 2	

Case 01.007: Hot circuit with double pumps for outdoor temperature + constant hot circuit with double pumps



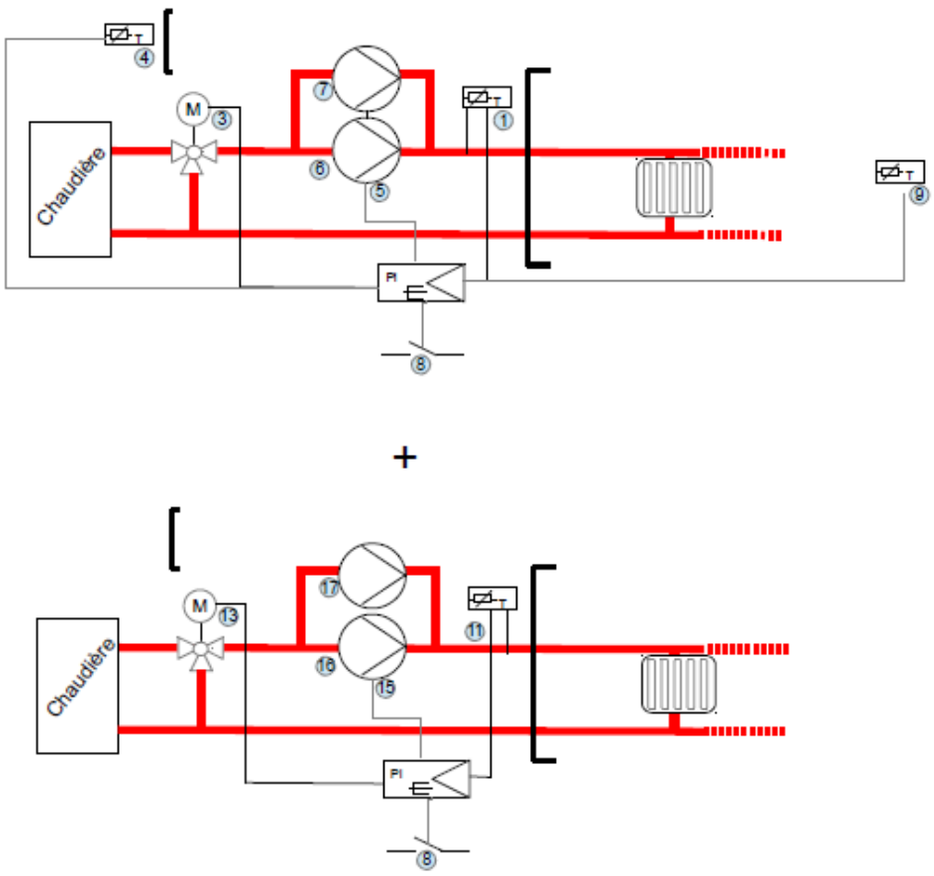
I/O	Terminal	Description	Figure
AI1	22-23	Temperature sensor, circuit 1 NI1000	1
AI2	24-25	Temperature sensor, circuit 2 NI1000	11
AI3	26-27	Outdoor temperature sensor	4
AI4	28-29	Fault in pump 1, circuit 1	5
AI5 (0-10V)	30-31		
AI6 (0-10V)	32-33	Setpoint or outdoor temperature input via other controller	
DI1	34-35	Fault in pump 2, circuit 1	9
DI2	36-35	Fault in pump 1, circuit 2	15
DI3	37-35	Fault in pump 2, circuit 2	19
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	Valve output, circuit 1	3
AO2	40-38	Valve output, circuit 2	13
AO3	41-43	Water rule setpoint, boiler	
AO4	42-43	Output of setpoint or outdoor temperature for other RDT600	
DO11-12	06-07	Control of pump 1, circuit 1	6
DO21-22	08-09	Control of pump 2, circuit 1	7
DO31-32	10-11	Valve opening control, circuit 1	3
DO41-42	12-13	Valve closing control, circuit 1	3
DO51-52	14-15	Control of pump 1, circuit 2	16
DO61-62	16-17	Control of pump 2, circuit 2	17
DO71-72	18-19	Valve opening control, circuit 2	13
DO81-82	20-21	Valve closing control, circuit 2	13

Case 01.008: 2 hot circuits with double pumps according to the outdoor temperature and the ambient temperature



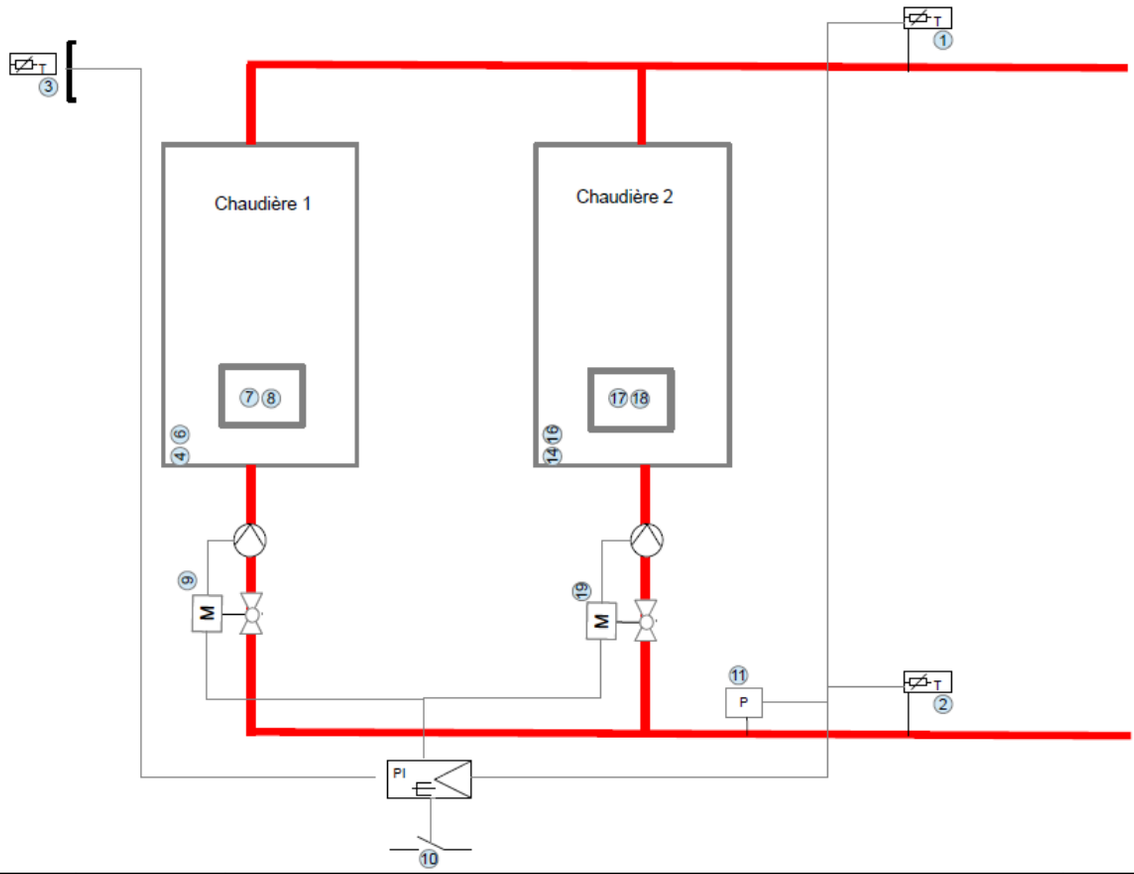
I/O	Terminal	Description	Figure
AI1	22-23	Temperature sensor, circuit 1 NI1000	1
AI2	24-25	Temperature sensor, circuit 2 NI1000	
AI3	26-27	Outdoor temperature sensor	4
AI4	28-29	Room-temperature sensor, circuit 1	9
AI5 (0-10V)	30-31	Room-temperature sensor, circuit 2	
AI6 (0-10V)	32-33	Setpoint or outdoor temperature input via other controller	
DI1	34-35	Fault in pump, circuit 1	5
DI2	36-35	Fault in pump, circuit 2	
DI3	37-35		
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	Valve output, circuit 1	3
AO2	40-38	Valve output, circuit 2	
AO3	41-43	Water rule setpoint, boiler	
AO4	42-43	Output of setpoint or outdoor temperature for other RDT600	
DO11-12	06-07	Control of pump 1, circuit 1	6
DO21-22	08-09	Control of pump 2, circuit 1	7
DO31-32	10-11	Valve opening control, circuit 1	3
DO41-42	12-13	Valve closing control, circuit 1	3
DO51-52	14-15	Control of pump 1, circuit 2	
DO61-62	16-17	Control of pump 2, circuit 2	
DO71-72	18-19	Valve opening control, circuit 2	
DO81-82	20-21	Valve closing control, circuit 2	

Case 01.009: Hot circuit with double pumps for external temperature and ambient temperature + constant hot circuit double pumps



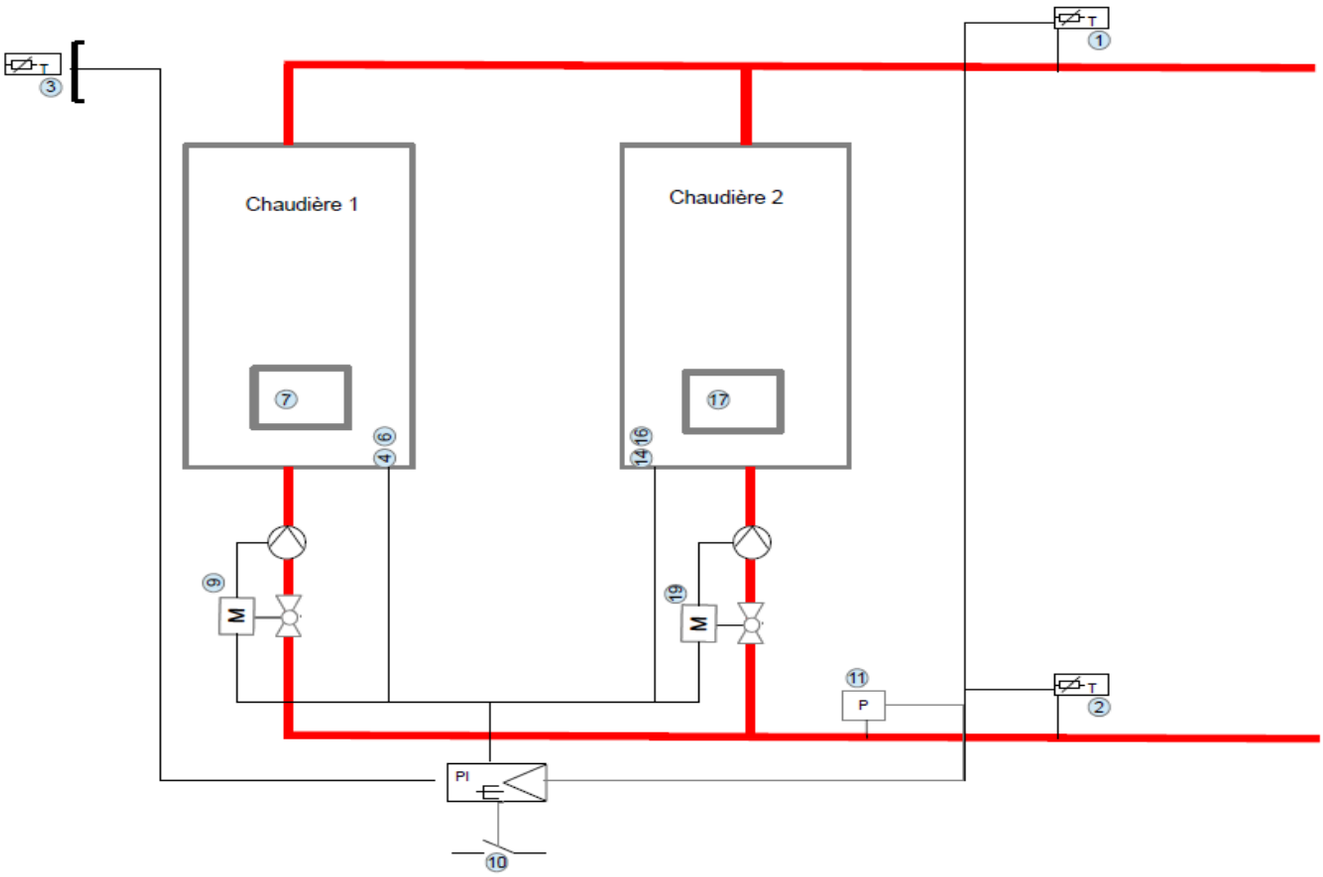
I/O	Terminal	Description	Figure
AI1	22-23	Temperature sensor, circuit 1 NI1000	1
AI2	24-25	Temperature sensor, circuit 2 NI1000	11
AI3	26-27	Outdoor temperature sensor	4
AI4	28-29	Room-temperature sensor, circuit 1	9
AI5 (0-10V)	30-31		
AI6 (0-10V)	32-33	Setpoint or outdoor temperature input via other controller	
DI1	34-35	Fault in pump, circuit 1	5
DI2	36-35	Fault in pump, circuit 2	15
DI3	37-35		
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	Valve output, circuit 1	3
AO2	40-38	Valve output, circuit 2	13
AO3	41-43	Water rule setpoint, boiler	
AO4	42-43	Output of setpoint or outdoor temperature for other RDT600	
DO11-12	06-07	Control of pump 1, circuit 1	6
DO21-22	08-09	Control of pump 2, circuit 1	7
DO31-32	10-11	Valve opening control, circuit 1	3
DO41-42	12-13	Valve closing control, circuit 1	3
DO51-52	14-15	Control of pump 1, circuit 2	16
DO61-62	16-17	Control of pump 2, circuit 2	17
DO71-72	18-19	Valve opening control, circuit 2	13
DO81-82	20-21	Valve closing control, circuit 2	13

Case 01.010: 2 boilers, 2 speeds



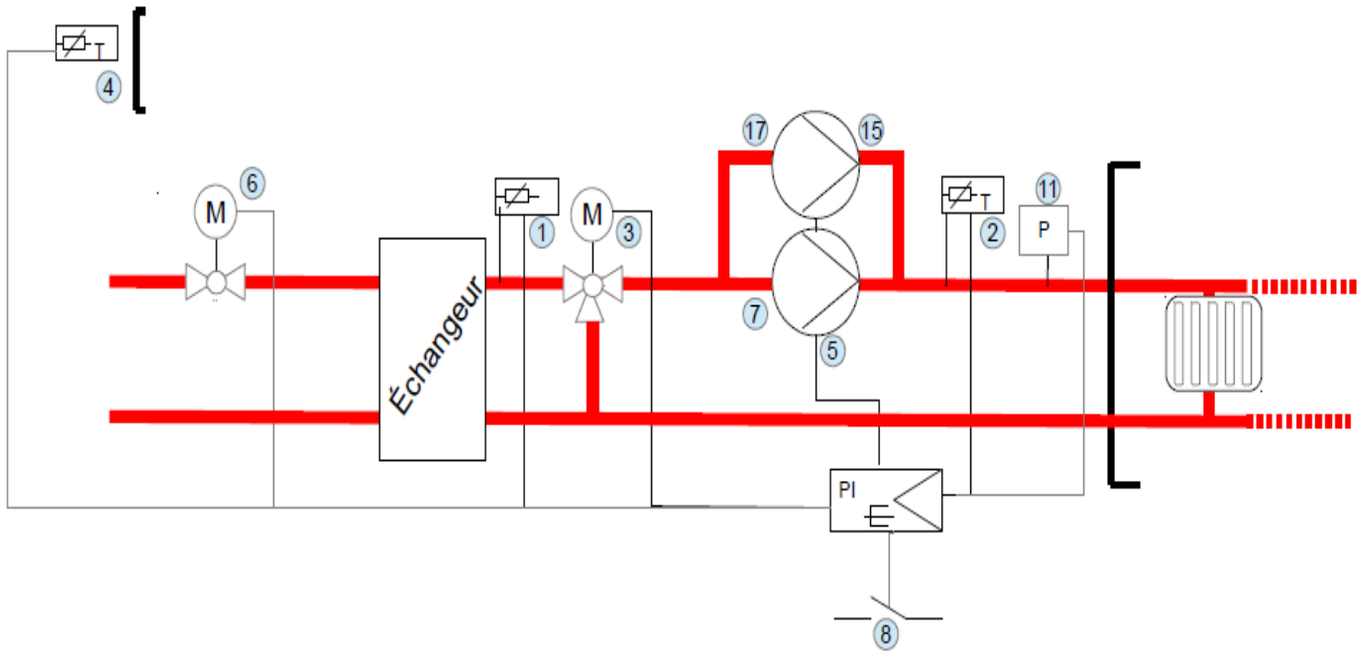
I/O	Terminal	Description	Figure
AI1	22-23	Boiler supply sensor	1
AI2	24-25	Boiler return sensor	2
AI3	26-27	Outdoor temperature	3
AI4	28-29		
AI5 (0-10V)	30-31	Setpoint or outdoor temperature input via other controller	
AI6 (0-10V)	32-33		
DI1	34-35	Fault, boiler 1	4
DI2	36-35	Fault, boiler 2	14
DI3	37-35	Low-water pressure switch	11
DI41/DI42 (230V)	04-05	Alarm acknowledgement	10
AO1	39-38		7
AO2	40-38		
AO3	41-43		
AO4	42-43	Output of setpoint or outdoor temperature for other RDT600	
DO11-12	06-07	Control, boiler 1	6
DO21-22	08-09	Control, boiler 2	16
DO31-32	10-11	Speed 1, boiler 1	7
DO41-42	12-13	Speed 2, boiler 1	17
DO51-52	14-15	Speed 1, boiler 2	8
DO61-62	16-17	Speed 2, boiler 2	18
DO71-72	18-19	Butterfly valve opening, boiler 1	9
DO81-82	20-21	Butterfly valve opening, boiler 2	19

Case 01.011: 2 boilers, variable speeds



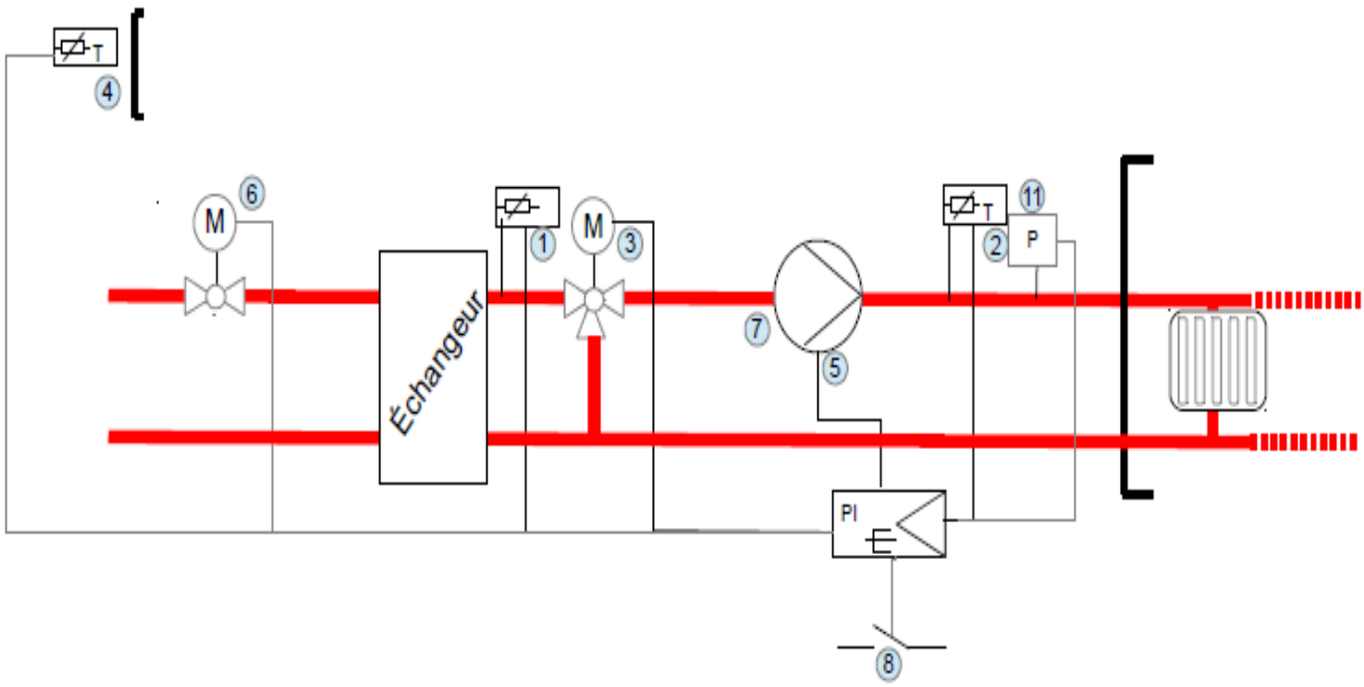
I/O	Terminal	Description	Figure
AI1	22-23	Boiler supply sensor	1
AI2	24-25	Boiler return sensor	2
AI3	26-27	Outdoor temperature	3
AI4	28-29		
AI5 (0-10V)	30-31	Setpoint or outdoor temperature input via other controller	
AI6 (0-10V)	32-33		
DI1	34-35	Fault, boiler 1	4
DI2	36-35	Fault, boiler 2	14
DI3	37-35	Low-water pressure switch	11
DI41/DI42 (230V)	04-05	Alarm acknowledgement	10
AO1	39-38	Setpoint / power of boiler 1	7
AO2	40-38	Setpoint / power of boiler 2	17
AO3	41-43		
AO4	42-43	Output of setpoint or outdoor temperature for other RDT600	
DO11-12	06-07	Enabling operation, boiler 1	6
DO21-22	08-09	Enabling operation, boiler 2	16
DO31-32	10-11	Butterfly valve opening, boiler 1	9
DO41-42	12-13	Butterfly valve opening, boiler 2	19
DO51-52	14-15	Run command, pump 1	5
DO61-62	16-17	Run command, pump 2	15
DO71-72	18-19		
DO81-82	20-21	Fault synthesis	10

Case 01.012: 1 converter + 1 hot circuit with double pumps according to the outdoor temperature



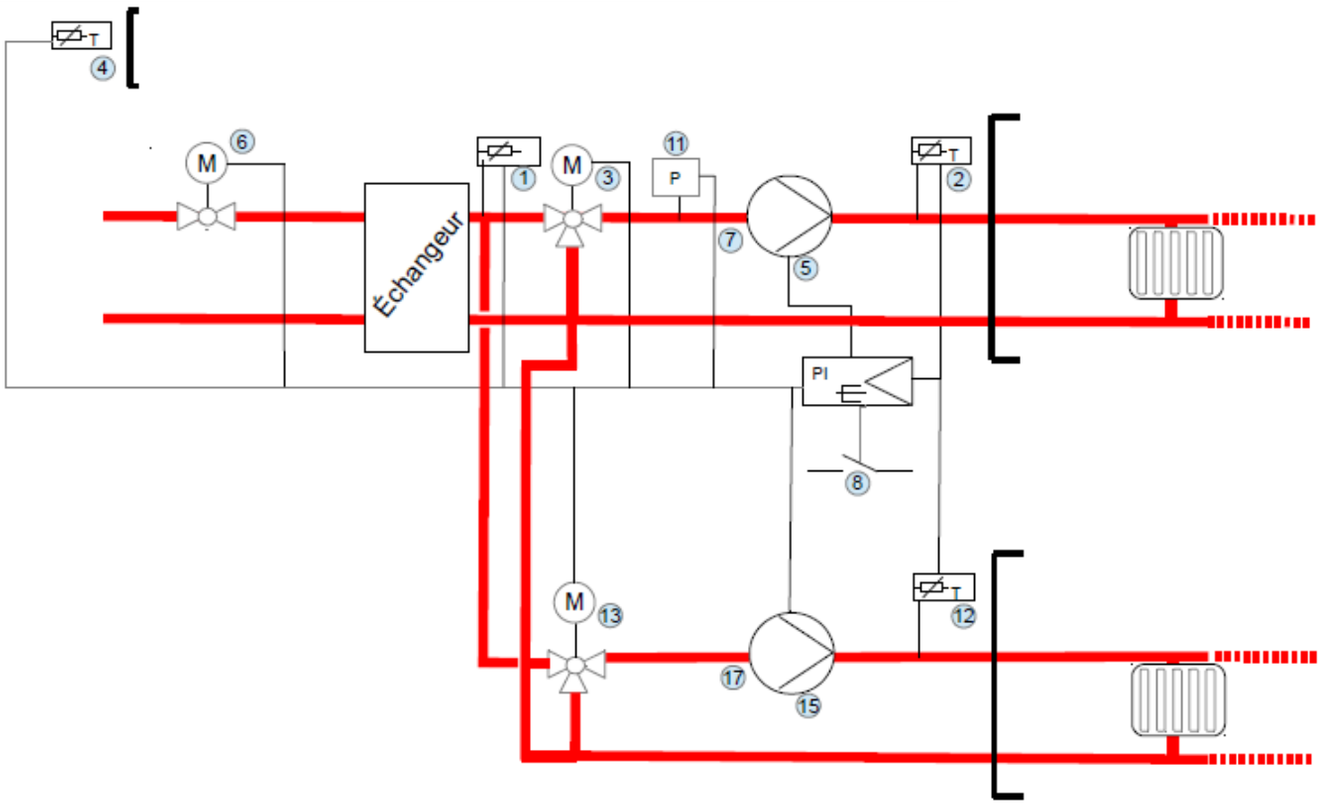
I/O	Terminal	Description	Figure
AI1	22-23	Secondary temperature sensor	1
AI2	24-25	Circuit temperature sensor	2
AI3	26-27	Outdoor temperature sensor	4
AI4	28-29	Malfunction synthesis / override button	
AI5 (0-10V)	30-31	Setpoint or outdoor temperature input via other controller	
AI6 (0-10V)	32-33		
DI1	34-35	Water low	11
DI2	36-35	Fault in pump 1	5
DI3	37-35	Fault in pump 2	15
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	Primary valve output	6
AO2	40-38	Circuit valve output	3
AO3	41-43		
AO4	42-43	Output of setpoint or outdoor temperature for other RDT600	
DO11-12	06-07	Run command, pump 1	7
DO21-22	08-09	Run command, pump 2	17
DO31-32	10-11	Primary valve output, opening control	6
DO41-42	12-13	Primary valve output, closing control	6
DO51-52	14-15	Circuit valve output, opening control	3
DO61-62	16-17	Circuit valve output, closing control	3
DO71-72	18-19	Restart output engaged	
DO81-82	20-21	Fault synthesis	

Case 01.013: 1 converter + 1 hot circuit with single pump depending on the outside temperature



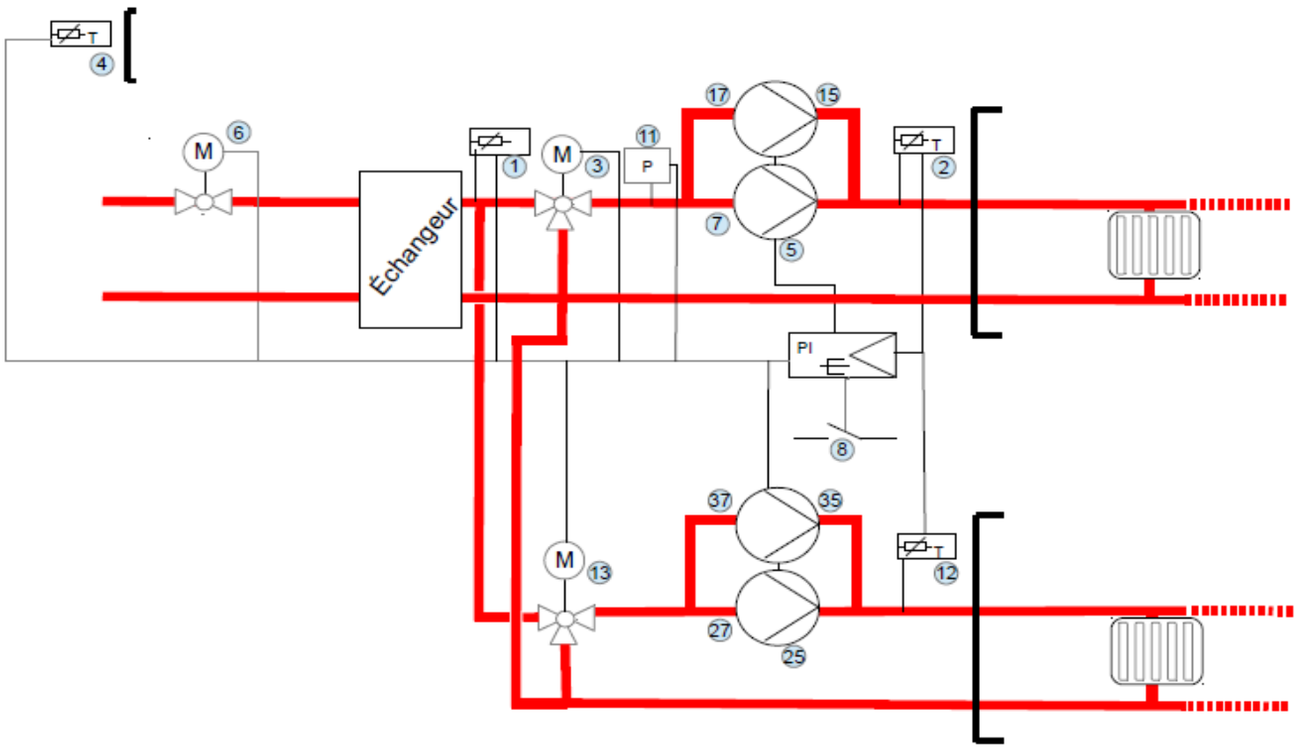
I/O	Terminal	Description	Figure
AI1	22-23	Secondary temperature sensor	1
AI2	24-25	Circuit temperature sensor	2
AI3	26-27	Outdoor temperature sensor	4
AI4	28-29	Fault synthesis	
AI5 (0-10V)	30-31	Setpoint or outdoor temperature input via other controller	
AI6 (0-10V)	32-33		
DI1	34-35	Water low	11
DI2	36-35	Fault in pump 1	5
DI3	37-35		
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	Primary valve output	6
AO2	40-38	Circuit valve output	3
AO3	41-43		
AO4	42-43	Output of setpoint or outdoor temperature for other RDT600	
DO11-12	06-07	Run command, pump 1	7
DO21-22	08-09		
DO31-32	10-11	Primary valve output, opening control	6
DO41-42	12-13	Primary valve output, closing control	6
DO51-52	14-15	Circuit valve output, opening control	3
DO61-62	16-17	Circuit valve output, closing control	3
DO71-72	18-19		
DO81-82	20-21	Fault synthesis	

Case 01.014: 1 converter + 2 hot circuits with single pump depending on the outside temperature



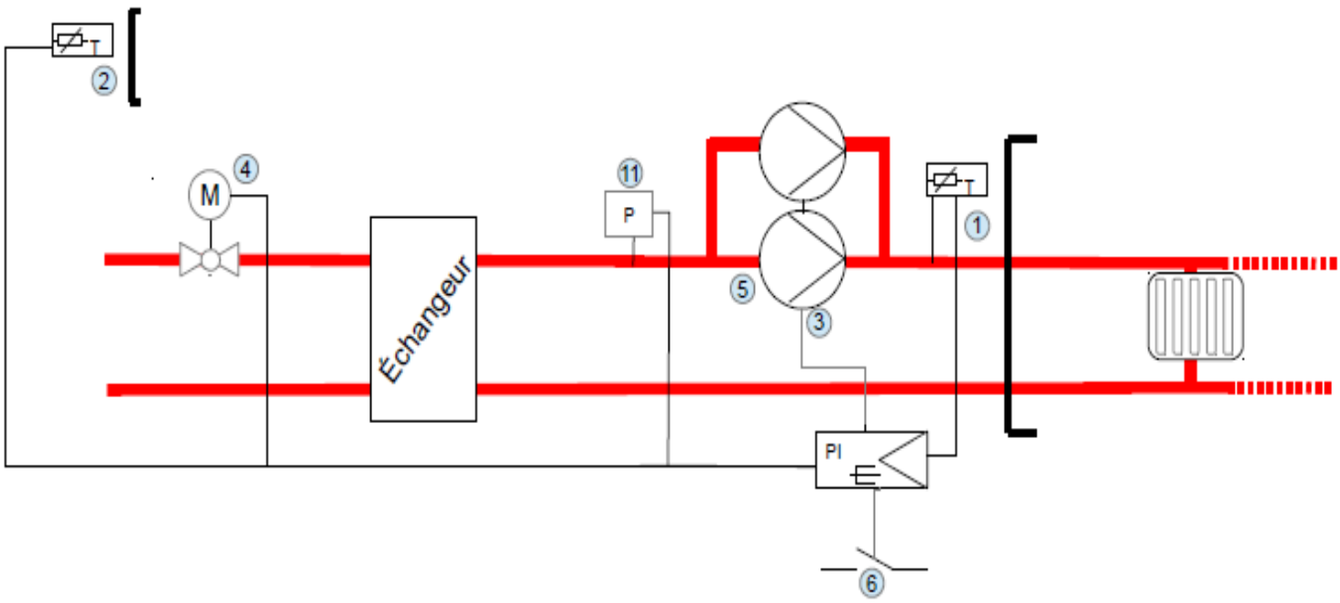
I/O	Terminal	Description	Figure
AI1	22-23	Secondary temperature sensor	1
AI2	24-25	Supply temperature sensor, circuit 1	2
AI3	26-27	Outdoor temperature sensor	4
AI4	28-29	Supply temperature sensor, circuit 2	12
AI5 (0-10V)	30-31	Setpoint or outdoor temperature input via other controller	
AI6 (0-10V)	32-33		
DI1	34-35	Water low	11
DI2	36-35	Pump fault, circuit 1	5
DI3	37-35	Pump fault, circuit 2	15
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	Primary valve output	6
AO2	40-38	Valve output, circuit 1	3
AO3	41-43	Valve output, circuit 2	13
AO4	42-43	Output of setpoint or outdoor temperature for other RDT600	
DO11-12	06-07	Pump run command, circuit 1	7
DO21-22	08-09	Pump run command, circuit 2	17
DO31-32	10-11		
DO41-42	12-13		
DO51-52	14-15		
DO61-62	16-17		
DO71-72	18-19		
DO81-82	20-21	Fault synthesis	

Case 01.015: 1 converter + 2 hot circuits with double pumps according to the outdoor temperature



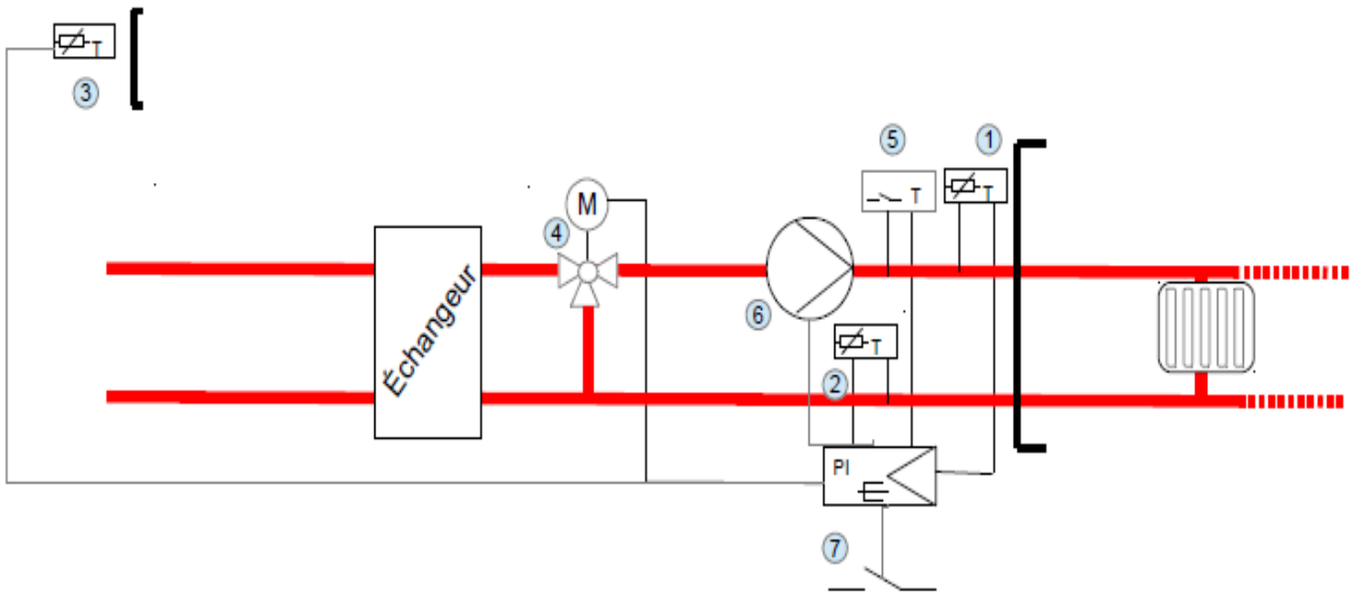
I/O	Terminal	Description	Figure
AI1	22-23	Secondary temperature sensor	1
AI2	24-25	Supply temperature sensor, circuit 1	2
AI3	26-27	Outdoor temperature sensor	4
AI4	28-29	Supply temperature sensor, circuit 2	12
AI5 (0-10V)	30-31	Fault in double pump 1, circuit 2	25
AI6 (0-10V)	32-33	Fault in double pump 2, circuit 2	35
DI1	34-35	Water low	11
DI2	36-35	Fault in double pump 1, circuit 1	5
DI3	37-35	Fault in double pump 2, circuit 1	15
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	Primary valve output	6
AO2	40-38	Valve output, circuit 1	3
AO3	41-43	Valve output, circuit 2	13
AO4	42-43	Pump fault, supply signal, circuit 2	
DO11-12	06-07	Double pump 1 run command, circuit 1	7
DO21-22	08-09	Double pump 2 run command, circuit 1	17
DO31-32	10-11	Double pump 1 run command, circuit 2	27
DO41-42	12-13	Double pump 2 run command, circuit 2	37
DO51-52	14-15		
DO61-62	16-17		
DO71-72	18-19		
DO81-82	20-21	Fault synthesis	

Case 01.016: Supply heating network according to the outdoor temperature



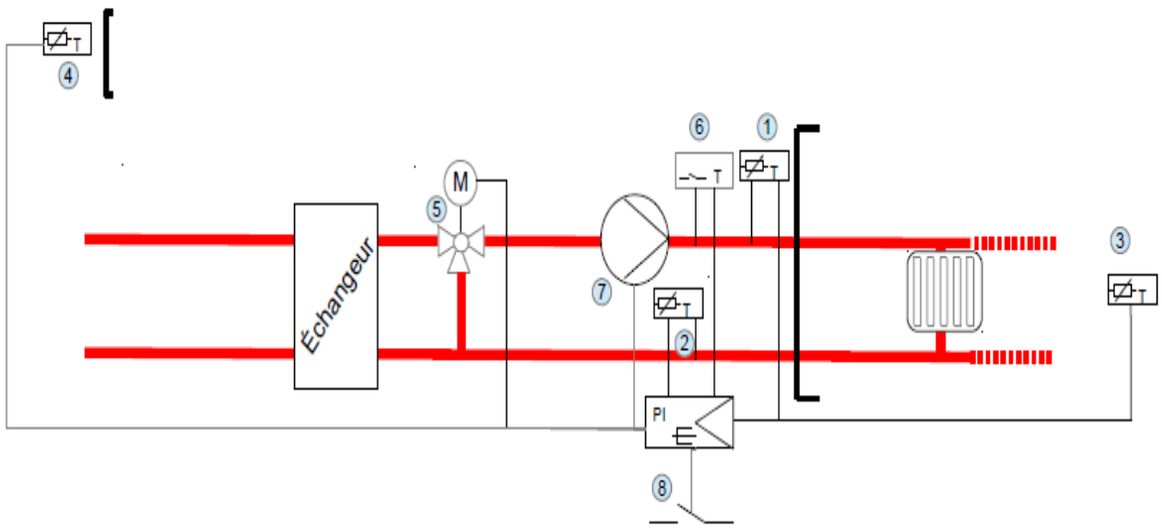
I/O	Terminal	Description	Figure
AI1	22-23		
AI2	24-25	Circuit temperature sensor	1
AI3	26-27	Outdoor temperature sensor	2
AI4	28-29		
AI5 (0-10V)	30-31	Input of setpoint or outdoor temperature	
AI6 (0-10V)	32-33		
DI1	34-35	Water low	11
DI2	36-35	Pump malfunction	3
DI3	37-35	Fault synthesis	
DI41/DI42 (230V)	04-05	Alarm acknowledgement	6
AO1	39-38	Primary valve output	4
AO2	40-38		
AO3	41-43		
AO4	42-43	Output of setpoint or outdoor temperature for other RDT600	
DO11-12	06-07	Opening control for primary valve	4
DO21-22	08-09	Closing control for primary valve	4
DO31-32	10-11		
DO41-42	12-13		
DO51-52	14-15		
DO61-62	16-17		
DO71-72	18-19	Pump run command	5
DO81-82	20-21	Fault synthesis	

Case 01.017: Supply regulated according to the outdoor temperature

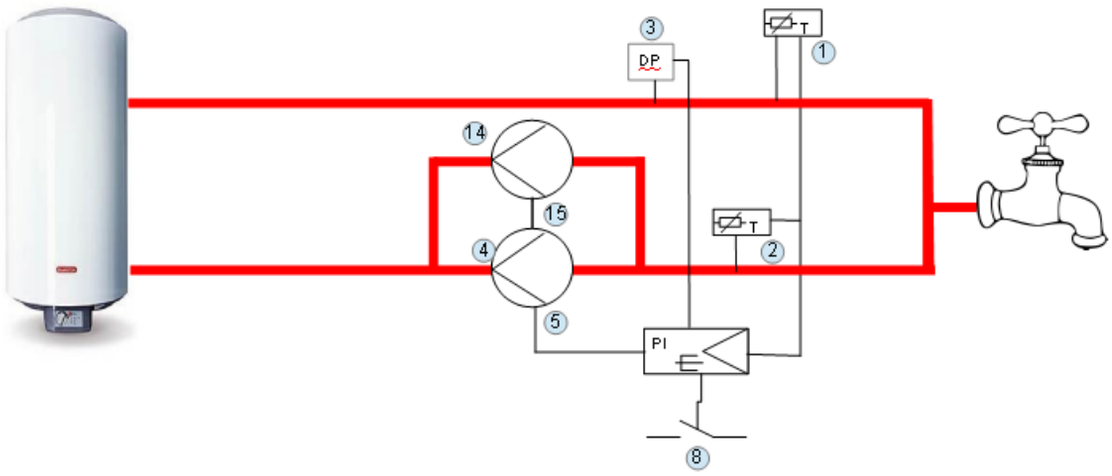


I/O	Terminal	Description	Figure
AI1	22-23	Supply temperature sensor	1
AI2	24-25	Return temperature sensor	2
AI3	26-27		
AI4	28-29	Outside temperature sensor	3
AI5 (0-10V)	30-31	Setpoint or outdoor temperature input via other controller	
AI6 (0-10V)	32-33	Dew point monitor	9
DI1	34-35	Safety thermostat / water low	5
DI2	36-35	Hot or cold operating state	
DI3	37-35	Overheating thermostat	8
DI41/DI42 (230V)	04-05	Alarm acknowledgement	7
AO1	39-38	Primary valve output	4
AO2	40-38		
AO3	41-43		
AO4	42-43	Output of setpoint or outdoor temperature for other RDT600	
DO11-12	06-07	Opening control for primary valve	4
DO21-22	08-09	Closing control for primary valve	4
DO31-32	10-11		
DO41-42	12-13		
DO51-52	14-15		
DO61-62	16-17		
DO71-72	18-19	Pump run command	6
DO81-82	20-21	Fault synthesis	

Case 01.018: Supply regulated according to outdoor temperature and ambient temperature



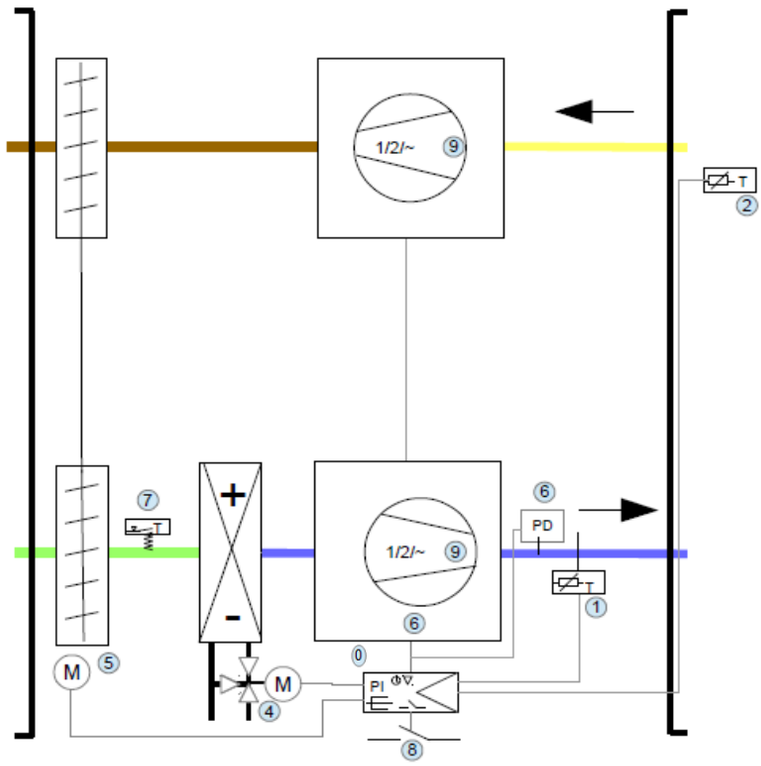
I/O	Terminal	Description	Figure
AI1	22-23	Supply temperature sensor	1
AI2	24-25	Return temperature sensor	2
AI3	26-27	Ambient temperature sensor	3
AI4	28-29	Outside temperature sensor	4
AI5 (0-10V)	30-31	Setpoint or outdoor temperature input via other controller	
AI6 (0-10V)	32-33	Dew point monitor	10
DI1	34-35	Safety thermostat / water low	6
DI2	36-35	Hot or cold operating state	
DI3	37-35	Overheating thermostat	9
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	Valve output	5
AO2	40-38		
AO3	41-43		
AO4	42-43	Output of setpoint or outdoor temperature for other RDT600	
DO11-12	06-07	Opening control for valve	5
DO21-22	08-09	Closing control for valve	5
DO31-32	10-11		
DO41-42	12-13		
DO51-52	14-15		
DO61-62	16-17		
DO71-72	18-19	Pump run command	7
DO81-82	20-21	Fault synthesis	



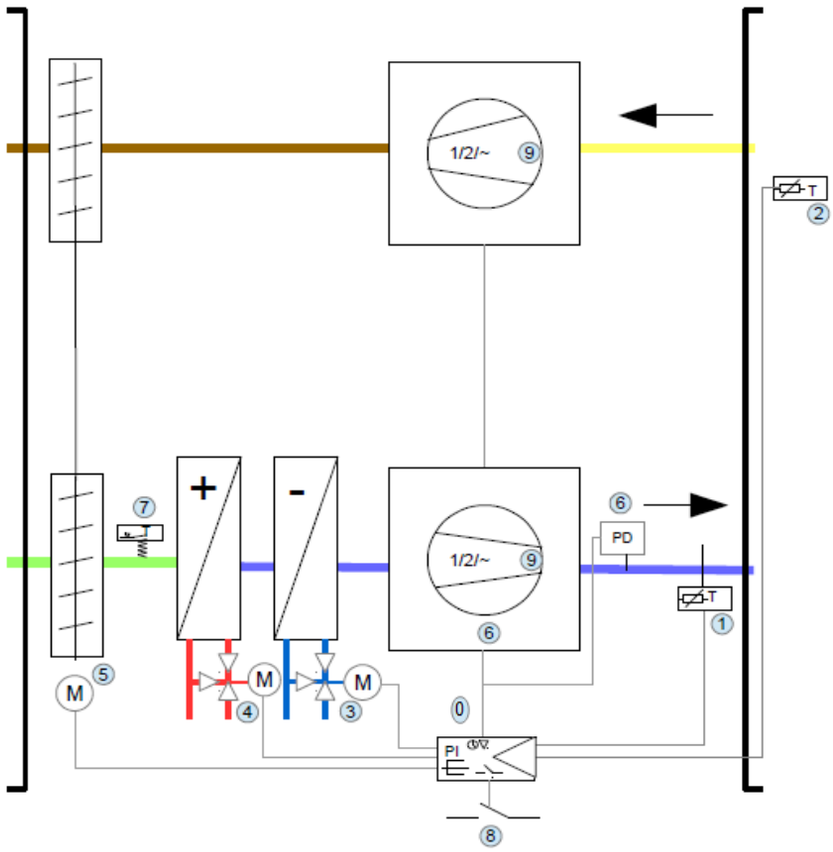
I/O	Terminal	Description	Figure
AI1	22-23	Supply temperature sensor	1
AI2	24-25	Return temperature sensor	2
AI3	26-27	Water low	3
AI4	28-29		
AI5 (0-10V)	30-31		
AI6 (0-10V)	32-33		
DI1	34-35	Fault in pump 1	5
DI2	36-35	Fault in pump 2	15
DI3	37-35	Auto/manual changeover	
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38		
AO2	40-38		
AO3	41-43		
AO4	42-43		
DO11-12	06-07		
DO21-22	08-09		
DO31-32	10-11		
DO41-42	12-13		
DO51-52	14-15	Pump operation, circuit 1	4
DO61-62	16-17	Pump operation, circuit 2	14
DO71-72	18-19		
DO81-82	20-21	Fault synthesis	

Ventilation

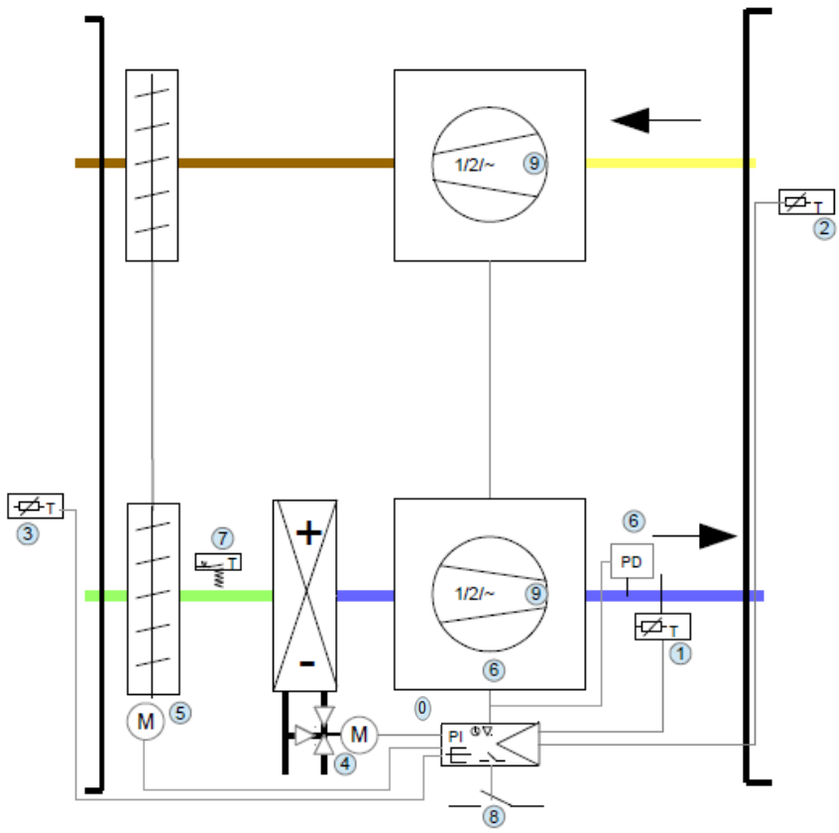
Case 02.001: AHU NA C/HB V1V2VV



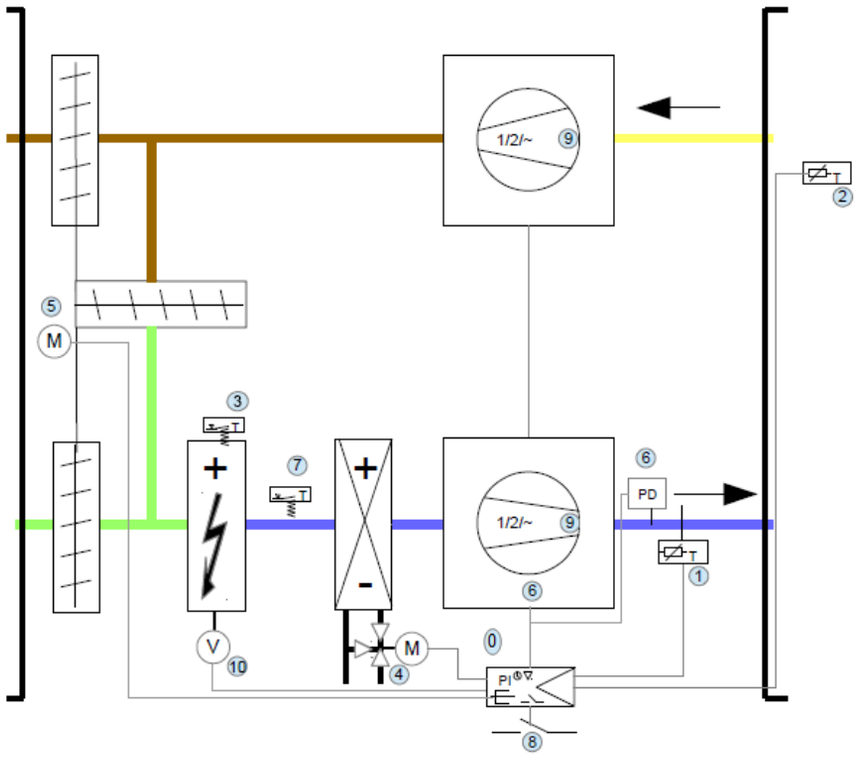
I/O	Terminal	Description	Figure
		RDT600	0
AI1	22-23	Supply air temperature sensor NI1000	1
AI2	24-25	Ambient/return air temperature sensor NI1000	2
AI3	26-27	Switch on contact	
AI4	28-29	Change over sensor / Fault in filter	22
AI5 (0-10V)	30-31		
AI6 (0-10V)	32-33	Setpoint offset input	23
DI1	34-35	Pressure switch / operating message for fan	6
DI2	36-35	Anti-freeze thermostat	7
DI3	37-35	Fault in filter / ON/OFF switch/ comfort-reduced	8
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	3-way valve control output	4
AO2	40-38	Variable fan control output	9
AO3	41-43	Damper control	5
AO4	42-43	Setpoint offset signal	
DO11-12	06-07	Fan control, speed 1(slow speed)	9
DO21-22	08-09	Fan control, speed 2(fast speed)	9
DO31-32	10-11	3-way valve opening	4
DO41-42	12-13	3-way valve closing	4
DO51-52	14-15	Damper control	5
DO61-62	16-17	Time programme 6	
DO71-72	18-19	Time programme 7	
DO81-82	20-21	Fault synthesis	8



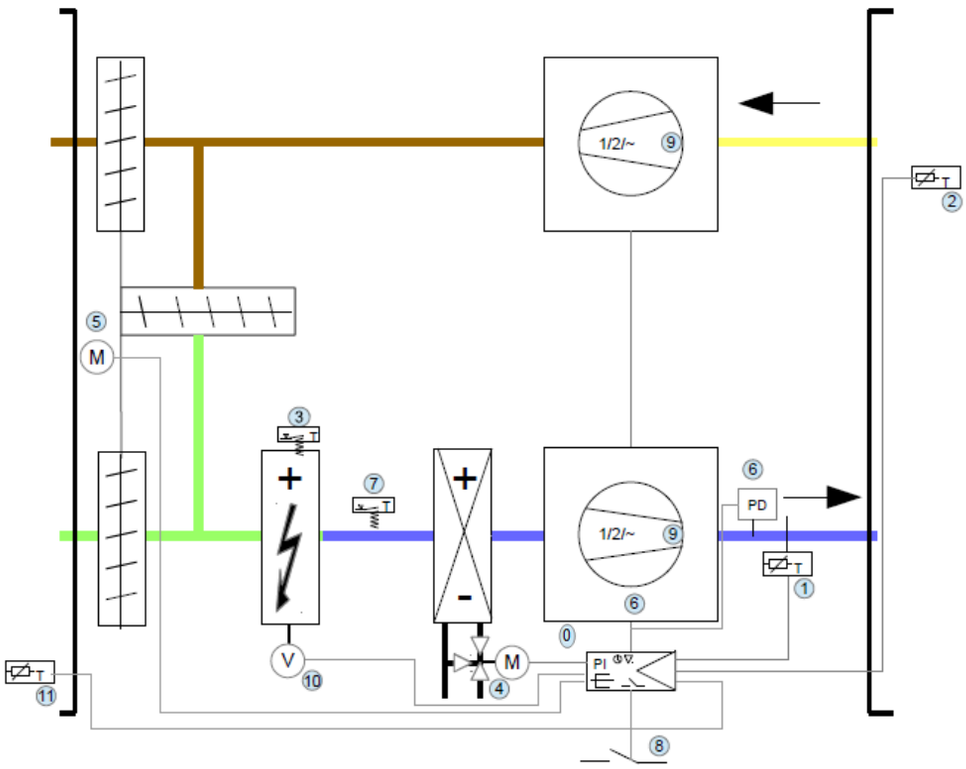
I/O	Terminal	Description	Figure
		RDT600	0
AI1	22-23	Supply air temperature sensor NI1000	1
AI2	24-25	Ambient/return air temperature sensor NI1000	2
AI3	26-27		
AI4	28-29	Fault in filter	
AI5 (0-10V)	30-31		
AI6 (0-10V)	32-33	Setpoint offset input	23
DI1	34-35	Pressure switch / operating message for fan	6
DI2	36-35	Anti-freeze thermostat	7
DI3	37-35	ON/OFF switch/ comfort-reduced	8
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	Hot 3-way valve control output	4
AO2	40-38	Variable fan control output	9
AO3	41-43	Cold 3-way valve control output	3
AO4	42-43	Setpoint offset signal	
DO11-12	06-07	Fan control, speed 1 (slow speed)	9
DO21-22	08-09	Fan control, speed 2 (fast speed)	9
DO31-32	10-11	Hot 3-way valve opening	4
DO41-42	12-13	Hot 3-way valve closing	4
DO51-52	14-15	Cold 3-way valve opening	3
DO61-62	16-17	Cold 3-way valve closing	3
DO71-72	18-19	Damper control	5
DO81-82	20-21	Fault synthesis	8



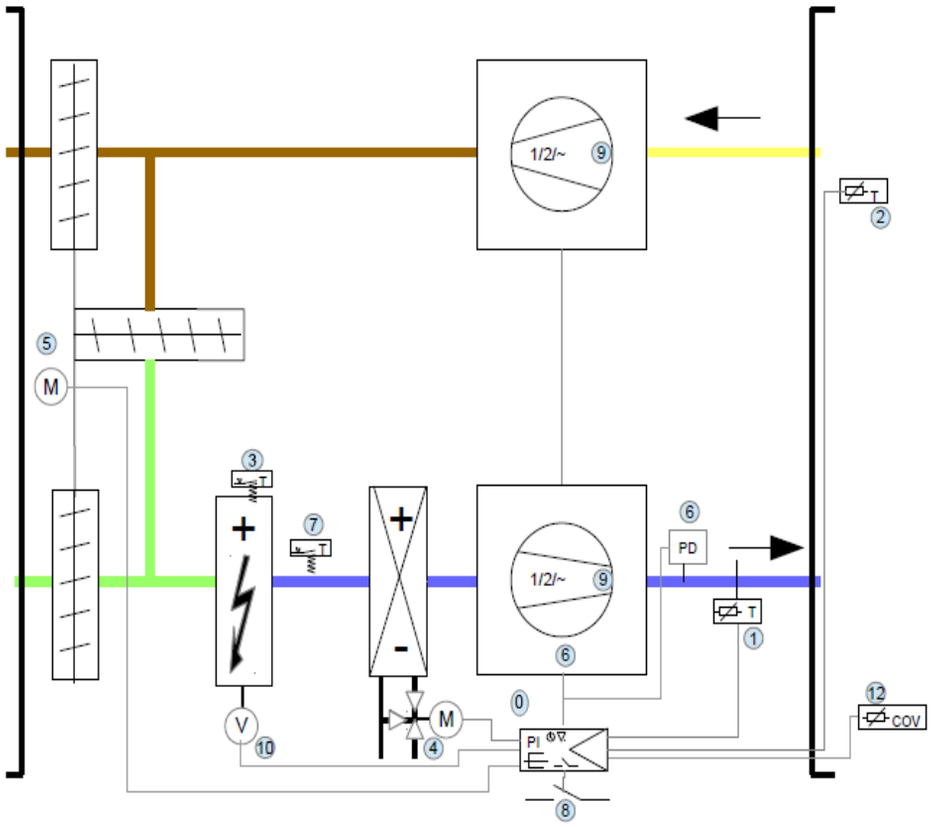
I/O	Terminal	Description	Figure
		RDT600	0
AI1	22-23	Supply air temperature sensor NI1000	1
AI2	24-25	Ambient/return air temperature sensor NI1000	2
AI3	26-27	Outdoor temperature sensor	3
AI4	28-29	Change over sensor / Fault in filter	22
AI5 (0-10V)	30-31		
AI6 (0-10V)	32-33	Setpoint offset input	23
DI1	34-35	Pressure switch / operating message for fan	6
DI2	36-35	Anti-freeze thermostat	7
DI3	37-35	Fault in filter / ON/OFF switch/ comfort-reduced	8
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	3-way valve control output	4
AO2	40-38	Variable fan control output	9
AO3	41-43	Damper control	5
AO4	42-43	Setpoint offset signal	
DO11-12	06-07	Fan control, speed 1(slow speed)	9
DO21-22	08-09	Fan control, speed 2 (fast speed)	9
DO31-32	10-11	3-way valve opening	4
DO41-42	12-13	3-way valve closing	4
DO51-52	14-15	Damper control	5
DO61-62	16-17	Time programme 6	
DO71-72	18-19	Time programme 7	
DO81-82	20-21	Fault synthesis	8



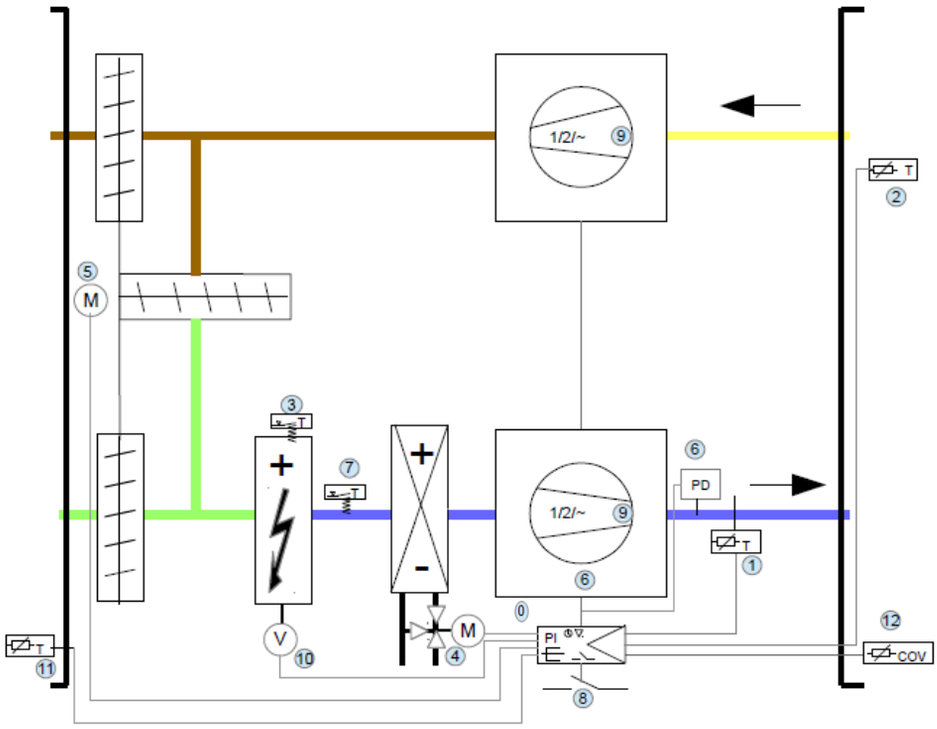
I/O	Terminal	Description	Figure
		RDT600	0
AI1	22-23	Supply air temperature sensor NI1000	1
AI2	24-25	Ambient/return air temperature sensor NI1000	2
AI3	26-27	Overheating thermostat (fire)	3
AI4	28-29	Change over sensor / Fault in filter	22
AI5 (0-10V)	30-31	Supply air pressure sensor	6
AI6 (0-10V)	32-33	Setpoint offset input	23
DI1	34-35	Pressure switch / operating message for fan	6
DI2	36-35	Anti-freeze thermostat	7
DI3	37-35	Fault in filter / ON/OFF switch/ comfort-reduced	8
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	3-way valve control output	4
AO2	40-38	Variable fan control output	9
AO3	41-43	Electrical battery	10
AO4	42-43	Setpoint offset signal	
DO11-12	06-07	Fan control, speed 1(slow speed)	9
DO21-22	08-09	Fan control, speed 2 (fast speed)	9
DO31-32	10-11	3-way valve opening	4
DO41-42	12-13	3-way valve closing	4
DO51-52	14-15	Electrical battery	10
DO61-62	16-17	Damper control	5
DO71-72	18-19	Time programme 7	
DO81-82	20-21	Fault synthesis	8



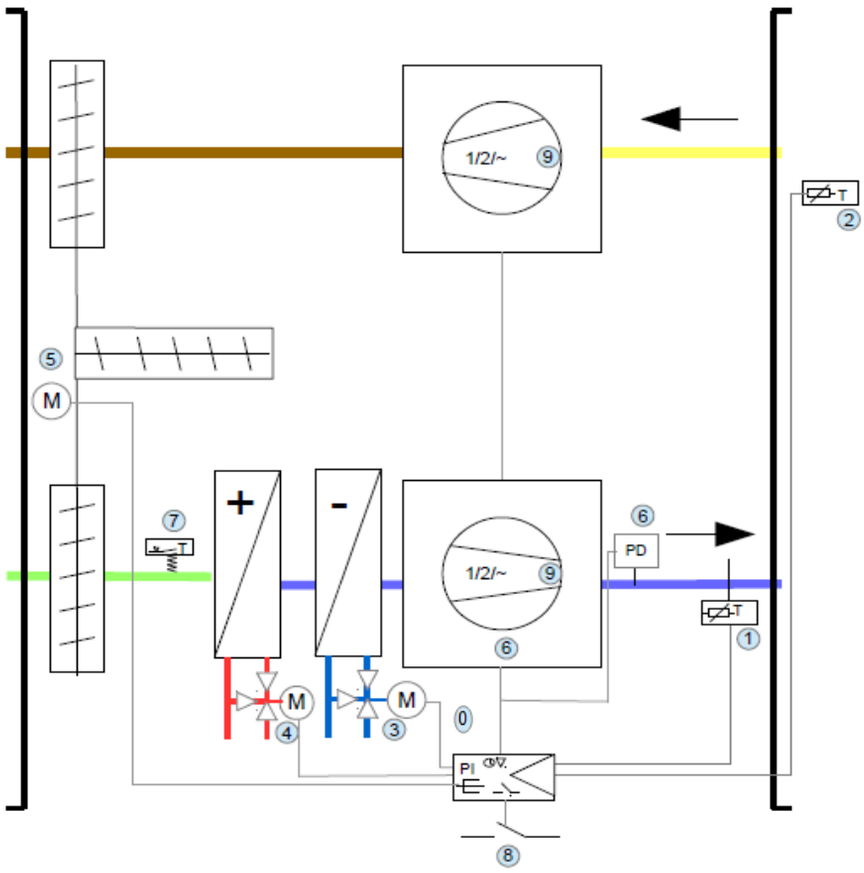
I/O	Terminal	Description	Figure
		RDT600	0
AI1	22-23	Supply air temperature sensor NI1000	1
AI2	24-25	Ambient/return air temperature sensor NI1000	2
AI3	26-27	Outdoor temperature sensor	11
AI4	28-29	Change over sensor / Fault in filter	22
AI5 (0-10V)	30-31		
AI6 (0-10V)	32-33		
DI1	34-35	Pressure switch / operating message for fan	6
DI2	36-35	Anti-freeze thermostat	7
DI3	37-35	Overheating thermostat (fire)	3
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	3-way valve control output	4
AO2	40-38	Variable fan control output	9
AO3	41-43	Electrical battery	10
AO4	42-43	Damper control	5
DO11-12	06-07	Fan control, speed 1(slow speed)	9
DO21-22	08-09	Fan control, speed 2 (fast speed)	9
DO31-32	10-11	3-way valve opening	4
DO41-42	12-13	3-way valve closing	4
DO51-52	14-15	Electrical battery	10
DO61-62	16-17	Damper control	5
DO71-72	18-19	Time programme 7	
DO81-82	20-21	Fault synthesis	8



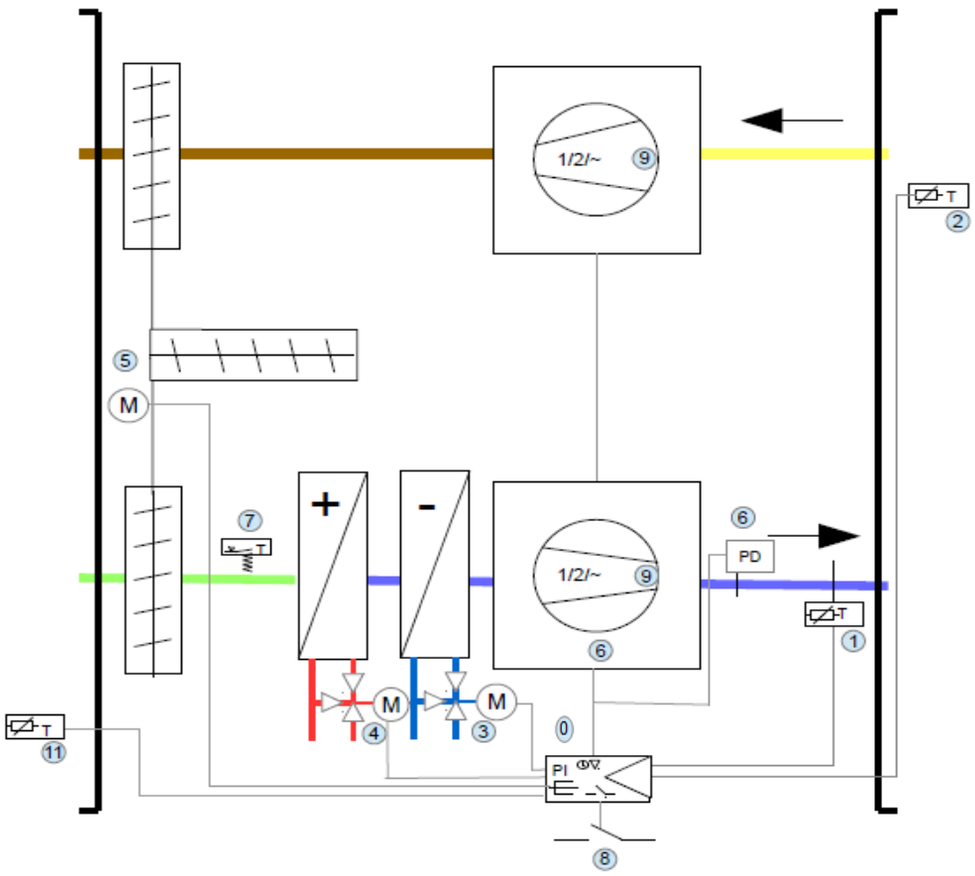
I/O	Terminal	Description	Figure
		RDT600	0
AI1	22-23	Supply air temperature sensor NI1000	1
AI2	24-25	Ambient/return air temperature sensor NI1000	2
AI3	26-27	Overheating thermostat (fire)	3
AI4	28-29	Change over sensor / Fault in filter	22
AI5 (0-10V)	30-31	Air quality sensor (VOC) / CO2	12
AI6 (0-10V)	32-33	Ambient/return air temperature sensor or Setpoint offset input	2
DI1	34-35	Pressure switch / operating message for fan	6
DI2	36-35	Anti-freeze thermostat	7
DI3	37-35	Fault in filter / ON/OFF switch/ comfort-reduced	8
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	3-way valve control output	4
AO2	40-38	Variable fan control output	9
AO3	41-43	Electrical battery	10
AO4	42-43	Damper control	5
DO11-12	06-07	Fan control, speed 1(slow speed)	9
DO21-22	08-09	Fan control, speed 2 (fast speed)	9
DO31-32	10-11	3-way valve opening	4
DO41-42	12-13	3-way valve closing	4
DO51-52	14-15	Electrical battery	10
DO61-62	16-17	Damper control	5
DO71-72	18-19	Time programme 7	
DO81-82	20-21	Fault synthesis	8



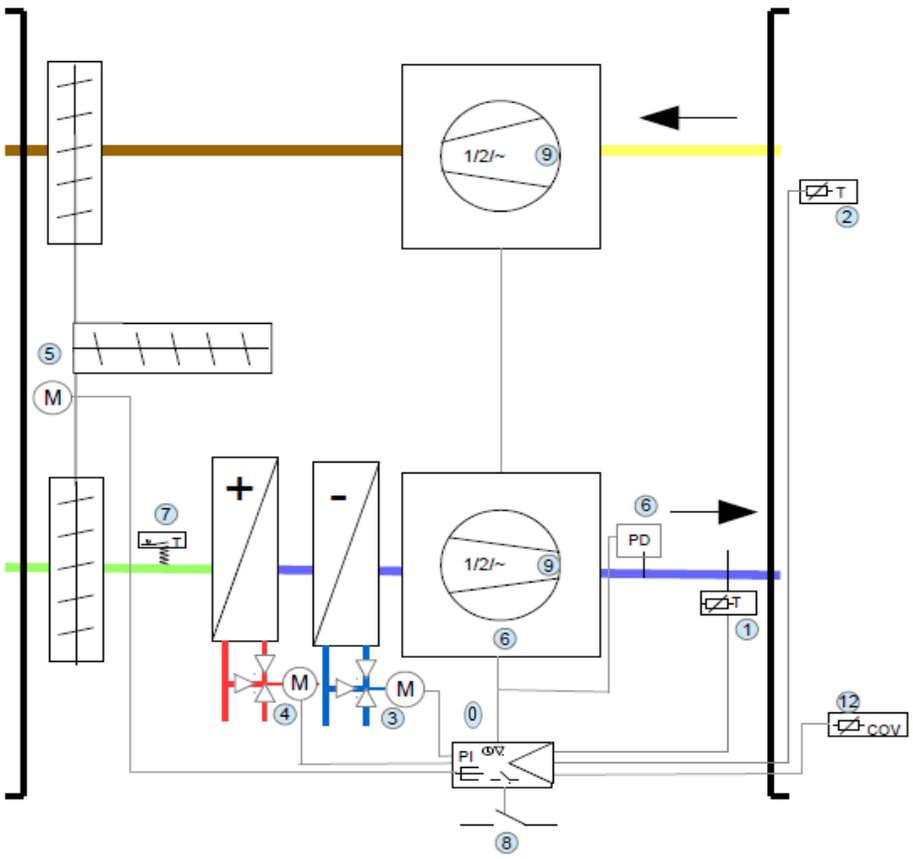
I/O	Terminal	Description	Figure
		RDT600	0
AI1	22-23	Supply air temperature sensor NI1000	1
AI2	24-25	Ambient/return air temperature sensor NI1000	2
AI3	26-27	Outdoor temperature sensor	11
AI4	28-29	Change over sensor / Fault in filter	22
AI5 (0-10V)	30-31	Air quality sensor (VOC) / CO2	12
AI6 (0-10V)	32-33	Ambient/return air temperature sensor	2
DI1	34-35	Pressure switch / operating message for fan	6
DI2	36-35	Anti-freeze thermostat	7
DI3	37-35	Overheating thermostat (fire)	3
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	3-way valve control output	4
AO2	40-38	Variable fan control output	9
AO3	41-43	Electrical battery	10
AO4	42-43	Damper control	5
DO11-12	06-07	Fan control, speed 1(slow speed)	9
DO21-22	08-09	Fan control, speed 2 (fast speed)	9
DO31-32	10-11	3-way valve opening	4
DO41-42	12-13	3-way valve closing	4
DO51-52	14-15	Electrical battery	10
DO61-62	16-17	Damper control	5
DO71-72	18-19	Time programme 7	
DO81-82	20-21	Fault synthesis	8



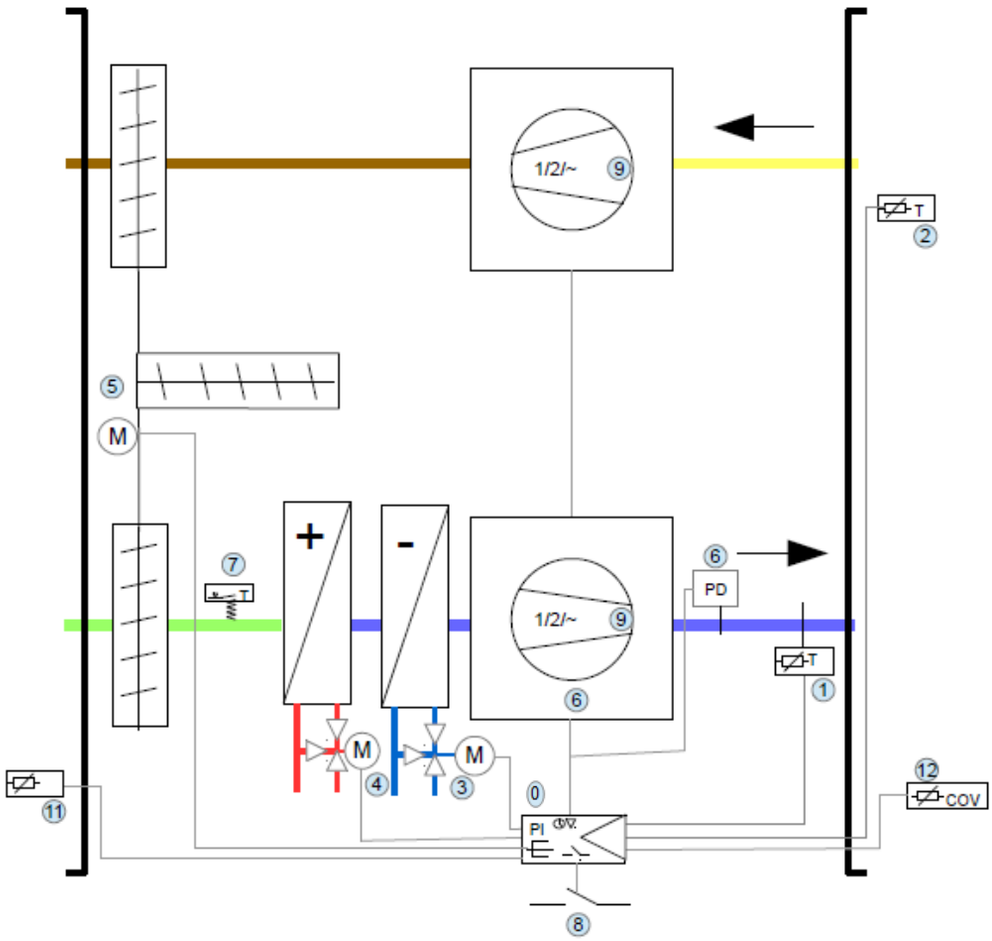
I/O	Terminal	Description	Figure
		RDT600	0
AI1	22-23	Supply air temperature sensor NI1000	1
AI2	24-25	Ambient/return air temperature sensor NI1000	2
AI3	26-27		
AI4	28-29	Fault in filter	
AI5 (0-10V)	30-31	Setpoint offset input	23
AI6 (0-10V)	32-33		
DI1	34-35	Pressure switch / operating message for fan	6
DI2	36-35	Anti-freeze thermostat	7
DI3	37-35	ON/OFF switch/ comfort-reduced	8
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	Hot 3-way valve control output	4
AO2	40-38	Variable fan control output	9
AO3	41-43	Cold 3-way valve control output	3
AO4	42-43	Setpoint offset signal	
DO11-12	06-07	Fan control, speed 1(slow speed)	9
DO21-22	08-09	Fan control, speed 2 (fast speed)	9
DO31-32	10-11	Hot 3-way valve opening	4
DO41-42	12-13	Hot 3-way valve closing	4
DO51-52	14-15	Cold 3-way valve opening	3
DO61-62	16-17	Cold 3-way valve closing	3
DO71-72	18-19	Damper control	5
DO81-82	20-21	Fault synthesis	8



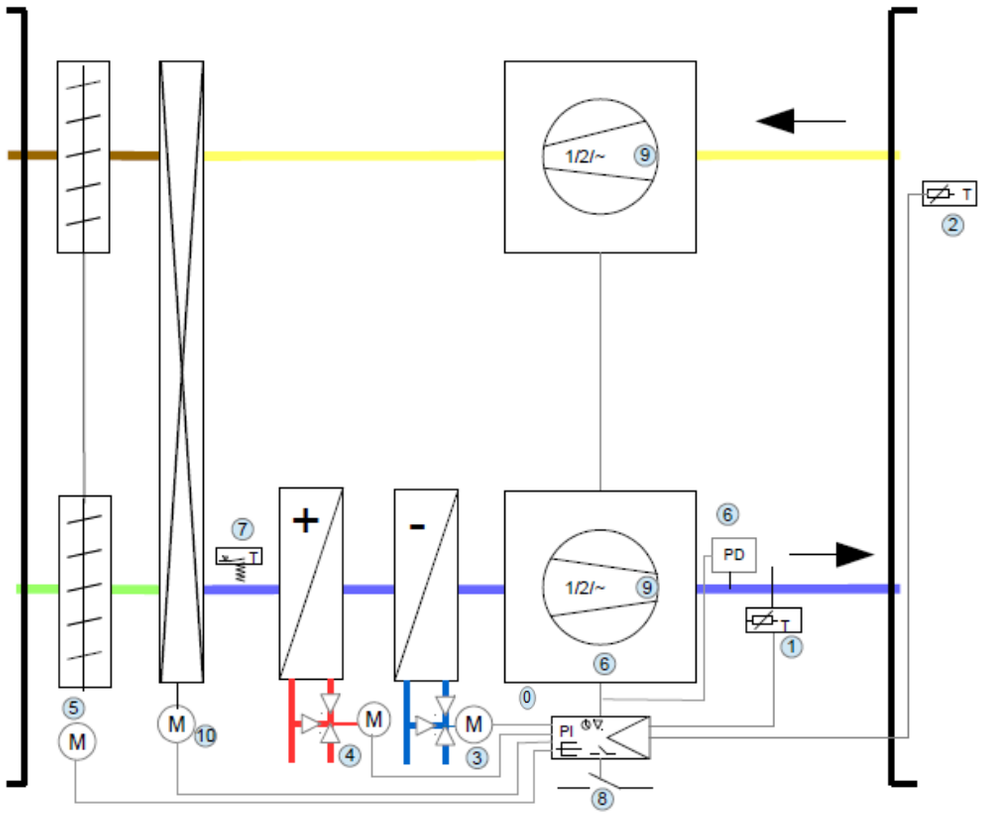
I/O	Terminal	Description	Figure
		RDT600	0
AI1	22-23	Supply air temperature sensor NI1000	1
AI2	24-25	Ambient/return air temperature sensor NI1000	2
AI3	26-27	Outdoor temperature sensor	11
AI4	28-29	Fault in filter	
AI5 (0-10V)	30-31		
AI6 (0-10V)	32-33		
DI1	34-35	Pressure switch / operating message for fan	6
DI2	36-35	Anti-freeze thermostat	7
DI3	37-35	ON/OFF switch/ comfort-reduced	8
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	Hot 3-way valve control output	4
AO2	40-38	Variable fan control output	9
AO3	41-43	Damper control	5
AO4	42-43	Cold 3-way valve control output	3
DO11-12	06-07	Fan control, speed 1(slow speed)	9
DO21-22	08-09	Fan control, speed 2 (fast speed)	9
DO31-32	10-11	Hot 3-way valve opening	4
DO41-42	12-13	Hot 3-way valve closing	4
DO51-52	14-15	Cold 3-way valve opening	3
DO61-62	16-17	Cold 3-way valve closing	3
DO71-72	18-19	Damper control	
DO81-82	20-21	Fault synthesis	8



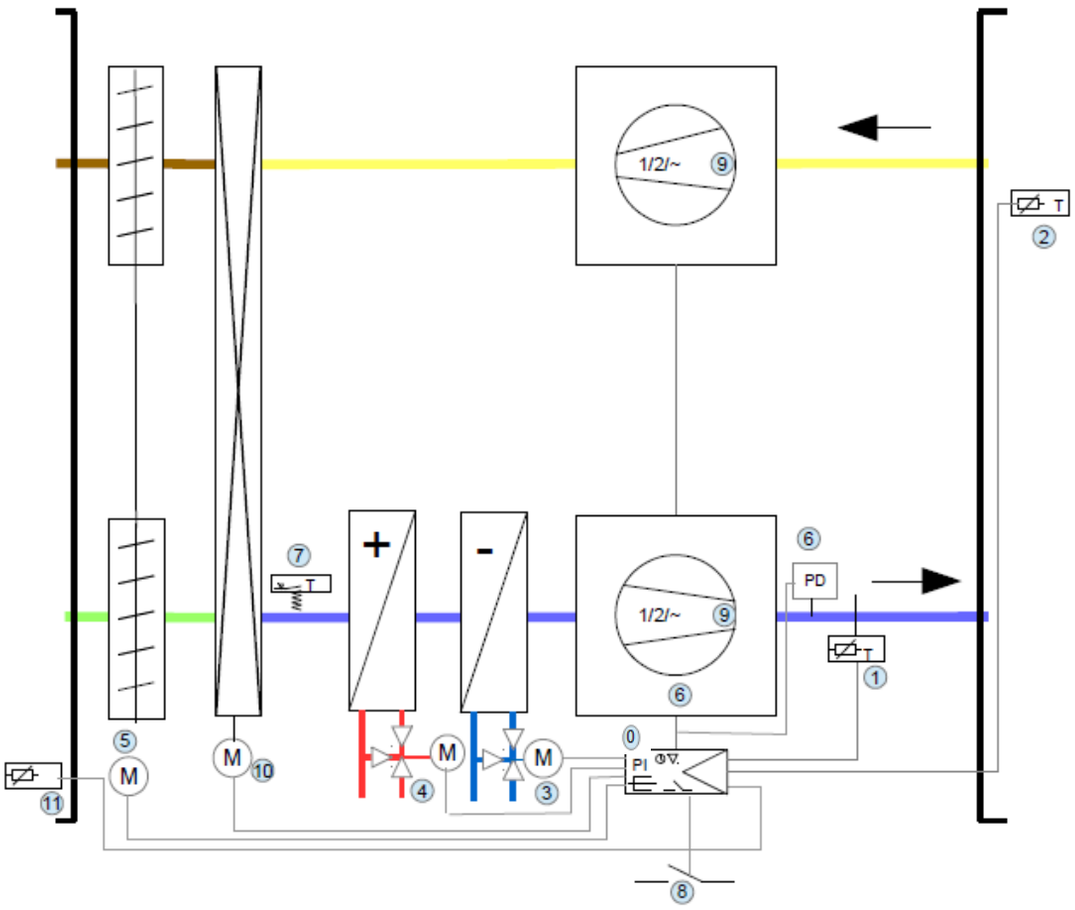
I/O	Terminal	Description	Figure
		RDT600	0
AI1	22-23	Supply air temperature sensor NI1000	1
AI2	24-25	Ambient/return air temperature sensor NI1000	2
AI3	26-27		
AI4	28-29	Fault in filter	
AI5 (0-10V)	30-31	Air quality sensor (VOC)/CO2	12
AI6 (0-10V)	32-33	Ambient/return air temperature sensor	2
DI1	34-35	Pressure switch / operating message for fan	6
DI2	36-35	Anti-freeze thermostat	7
DI3	37-35	ON/OFF switch/ comfort-reduced	8
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	Hot 3-way valve control output	4
AO2	40-38	Variable fan control output	9
AO3	41-43	Cold 3-way valve control output	3
AO4	42-43	Damper control	5
DO11-12	06-07	Fan control, speed 1(slow speed)	9
DO21-22	08-09	Fan control, speed 2 (fast speed)	9
DO31-32	10-11	Hot 3-way valve opening	4
DO41-42	12-13	Hot 3-way valve closing	4
DO51-52	14-15	Cold 3-way valve opening	3
DO61-62	16-17	Cold 3-way valve closing	3
DO71-72	18-19	Damper control	5
DO81-82	20-21	Fault synthesis	8



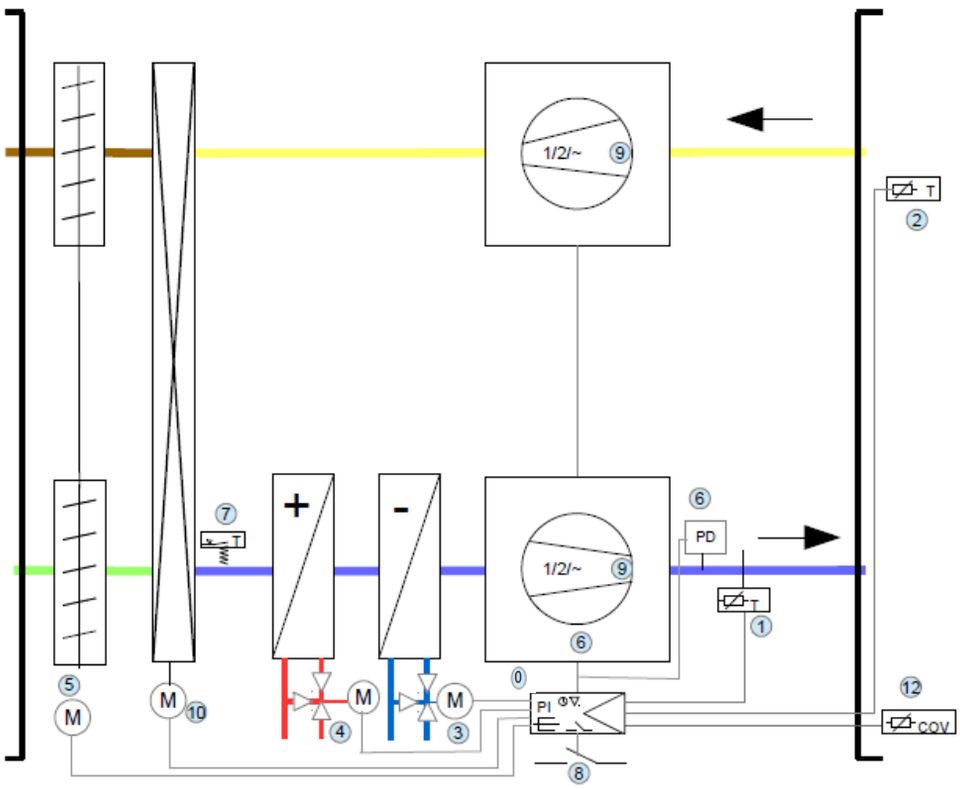
I/O	Terminal	Description	Figure
		RDT600	0
AI1	22-23	Supply air temperature sensor NI1000	1
AI2	24-25	Ambient/return air temperature sensor NI1000	2
AI3	26-27	Outdoor temperature sensor	11
AI4	28-29	Fault in filter	
AI5 (0-10V)	30-31	Air quality sensor (VOC) / CO2	12
AI6 (0-10V)	32-33	Ambient/return air temperature sensor	2
DI1	34-35	Pressure switch / operating message for fan	6
DI2	36-35	Anti-freeze thermostat	7
DI3	37-35	ON/OFF switch/ comfort-reduced	8
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	Hot 3-way valve control output	4
AO2	40-38	Variable fan control output	9
AO3	41-43	Damper control	5
AO4	42-43	Cold 3-way valve control output	3
DO11-12	06-07	Fan control, speed 1(slow speed)	9
DO21-22	08-09	Fan control, speed 2 (fast speed)	9
DO31-32	10-11	Hot 3-way valve opening	4
DO41-42	12-13	Hot 3-way valve closing	4
DO51-52	14-15	Cold 3-way valve opening	3
DO61-62	16-17	Cold 3-way valve closing	3
DO71-72	18-19	Damper control	5
DO81-82	20-21	Fault synthesis	8



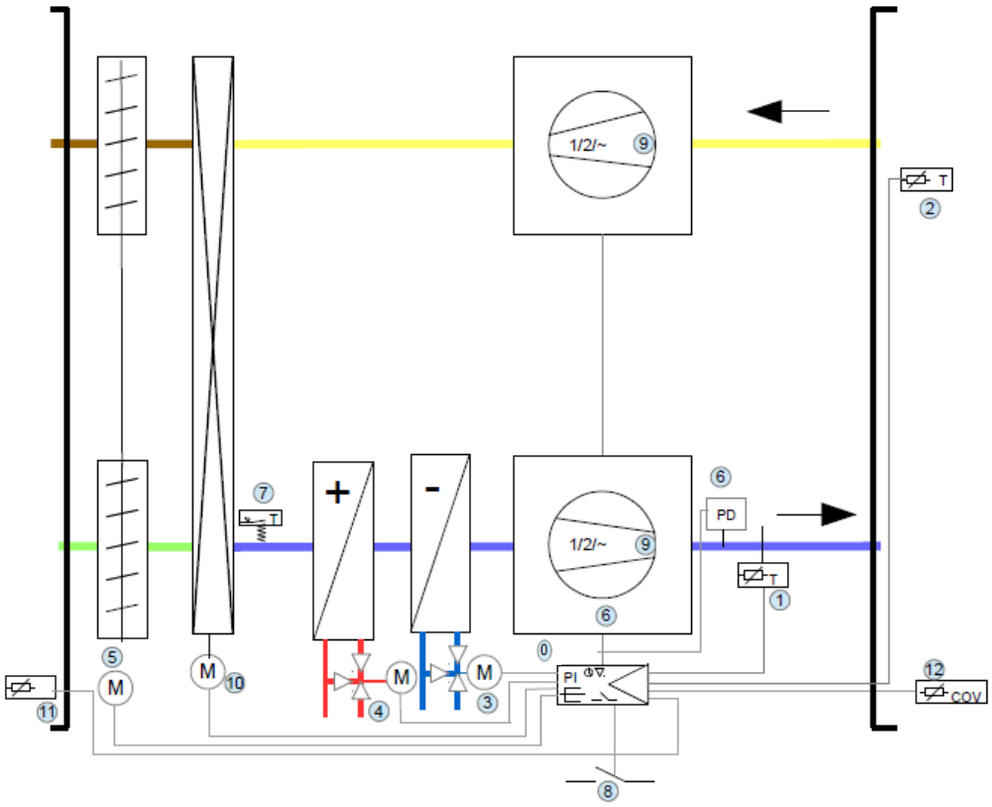
I/O	Terminal	Description	Figure
		RDT600	0
AI1	22-23	Supply air temperature sensor NI1000	1
AI2	24-25	Ambient/return air temperature sensor NI1000	2
AI3	26-27		
AI4	28-29	Fault in filter	
AI5 (0-10V)	30-31		
AI6 (0-10V)	32-33		
DI1	34-35	Pressure switch / operating message for fan	6
DI2	36-35	Anti-freeze thermostat	7
DI3	37-35	ON/OFF switch/ comfort-reduced	8
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	Hot 3-way valve control output	4
AO2	40-38	Variable fan control output	9
AO3	41-43	Cold 3-way valve control output	3
AO4	42-43	Heat recovery wheel control output	10
DO11-12	06-07	Fan control, speed 1(slow speed)	9
DO21-22	08-09	Fan control, speed 2 (fast speed)	9
DO31-32	10-11	Hot 3-way valve opening	4
DO41-42	12-13	Hot 3-way valve closing	4
DO51-52	14-15	Cold 3-way valve opening	3
DO61-62	16-17	Cold 3-way valve closing	3
DO71-72	18-19	Damper control	5
DO81-82	20-21	Fault synthesis	8



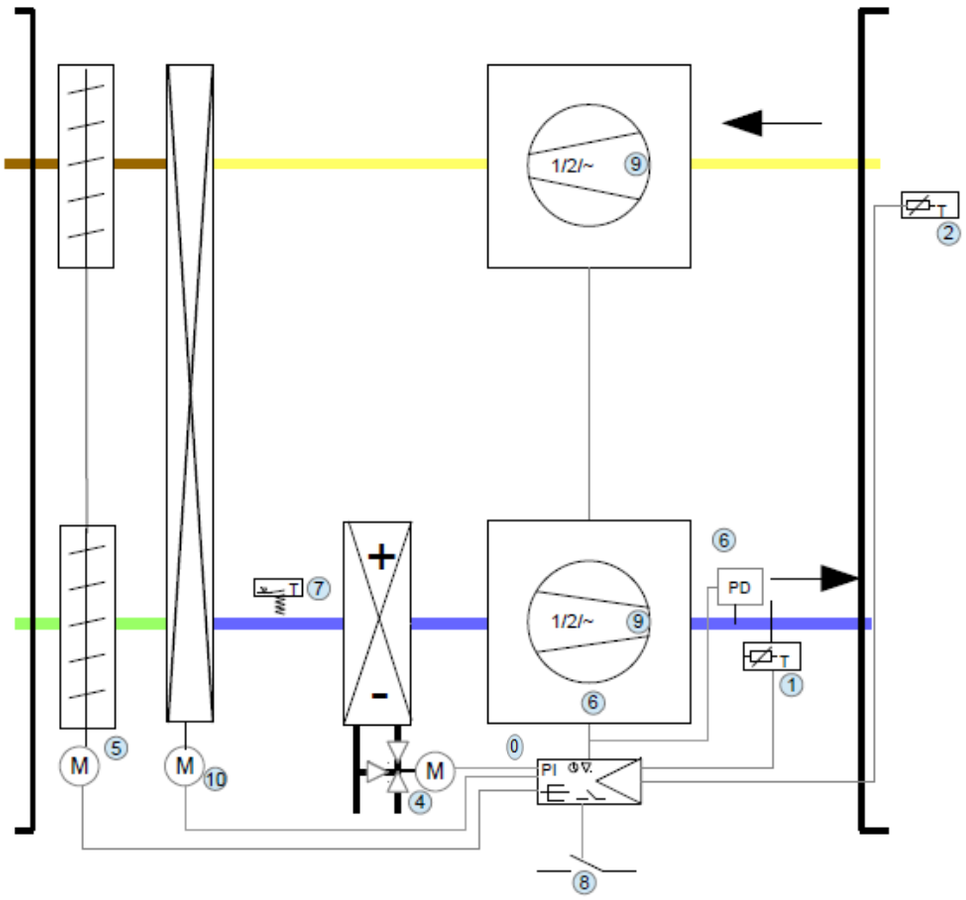
I/O	Terminal	Description	Figure
		RDT600	0
AI1	22-23	Supply air temperature sensor NI1000	1
AI2	24-25	Ambient/return air temperature sensor NI1000	2
AI3	26-27	Outdoor temperature sensor	11
AI4	28-29	Fault in filter	
AI5 (0-10V)	30-31		
AI6 (0-10V)	32-33		
DI1	34-35	Pressure switch / operating message for fan	6
DI2	36-35	Anti-freeze thermostat	7
DI3	37-35	ON/OFF switch/ comfort-reduced	8
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	Hot 3-way valve control output	4
AO2	40-38	Variable fan control output	9
AO3	41-43	Cold 3-way valve control output	3
AO4	42-43	Heat recovery wheel control output	10
DO11-12	06-07	Fan control, speed 1(slow speed)	9
DO21-22	08-09	Fan control, speed 2 (fast speed)	9
DO31-32	10-11	Hot 3-way valve opening	4
DO41-42	12-13	Hot 3-way valve closing	4
DO51-52	14-15	Cold 3-way valve opening	3
DO61-62	16-17	Cold 3-way valve closing	3
DO71-72	18-19	Damper control	5
DO81-82	20-21	Fault synthesis	8



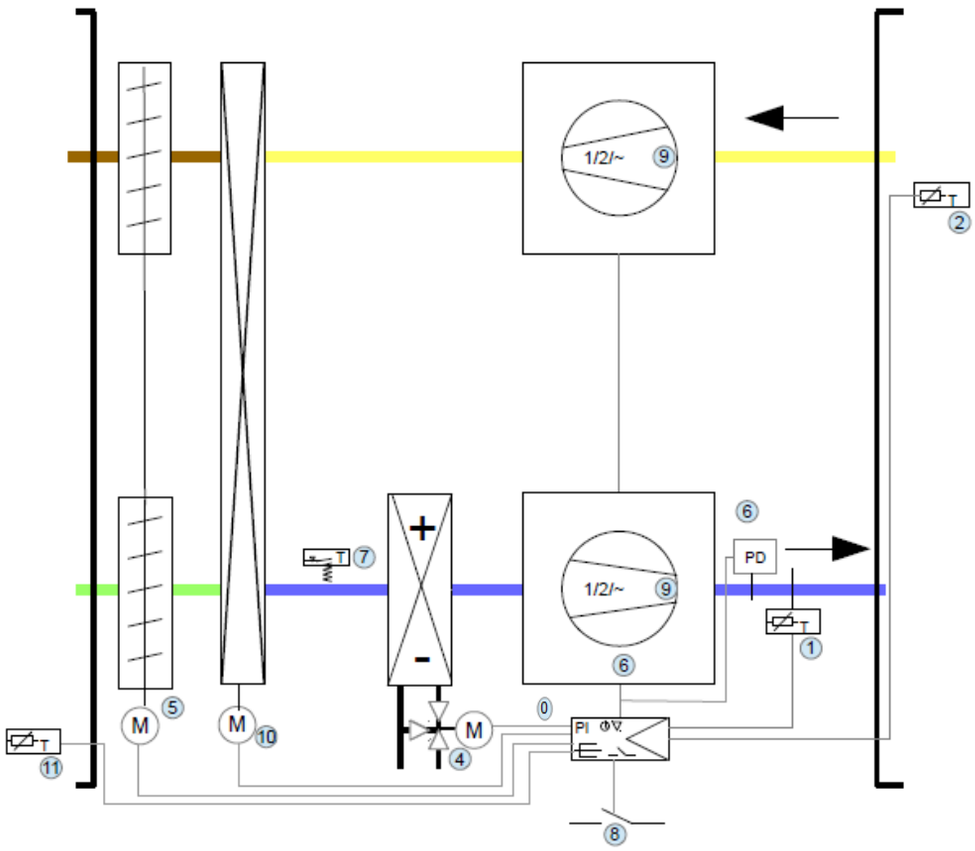
I/O	Terminal	Description	Figure
		RDT600	0
AI1	22-23	Supply air temperature sensor NI1000	1
AI2	24-25	Ambient/return air temperature sensor NI1000	2
AI3	26-27		
AI4	28-29	Fault in filter	
AI5 (0-10V)	30-31	Air quality sensor (VOC) / CO2	12
AI6 (0-10V)	32-33	Ambient/return air temperature sensor	2
DI1	34-35	Pressure switch / operating message for fan	6
DI2	36-35	Anti-freeze thermostat	7
DI3	37-35	ON/OFF switch/ comfort-reduced	8
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	Hot valve control output	4
AO2	40-38	Variable fan control output	9
AO3	41-43	Cold valve control output	3
AO4	42-43	Heat recovery wheel control output	10
DO11-12	06-07	Fan control, speed 1(slow speed)	9
DO21-22	08-09	Fan control, speed 2 (fast speed)	9
DO31-32	10-11	Hot 3-way valve opening	4
DO41-42	12-13	Hot 3-way valve closing	4
DO51-52	14-15	Cold 3-way valve opening	3
DO61-62	16-17	Cold 3-way valve closing	3
DO71-72	18-19	Damper control	5
DO81-82	20-21	Fault synthesis	8



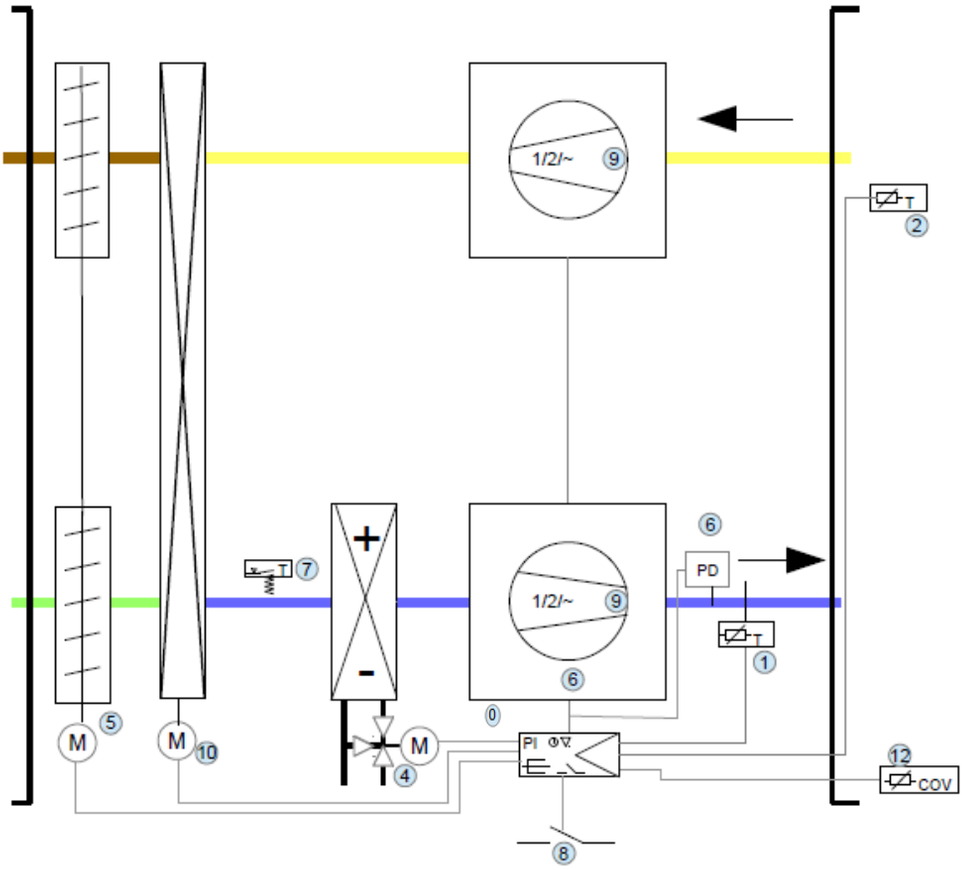
I/O	Terminal	Description	Figure
		RDT600	0
AI1	22-23	Supply air temperature sensor NI1000	1
AI2	24-25	Ambient/return air temperature sensor NI1000	2
AI3	26-27	Outdoor temperature sensor	11
AI4	28-29	Fault in filter	
AI5 (0-10V)	30-31	Air quality sensor (VOC) / CO2	12
AI6 (0-10V)	32-33	Ambient/return air temperature sensor	2
DI1	34-35	Pressure switch / operating message for fan	6
DI2	36-35	Anti-freeze thermostat	7
DI3	37-35	ON/OFF switch/ comfort-reduced	8
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	Hot 3-way valve control output	4
AO2	40-38	Variable fan control output	9
AO3	41-43	Cold 3-way valve control output	3
AO4	42-43	Heat recovery wheel control output	10
DO11-12	06-07	Fan control, speed 1(slow speed)	9
DO21-22	08-09	Fan control, speed 2 (fast speed)	9
DO31-32	10-11	Hot 3-way valve opening	4
DO41-42	12-13	Hot 3-way valve closing	4
DO51-52	14-15	Cold 3-way valve opening	3
DO61-62	16-17	Cold 3-way valve closing	3
DO71-72	18-19	Damper control	5
DO81-82	20-21	Fault synthesis	8



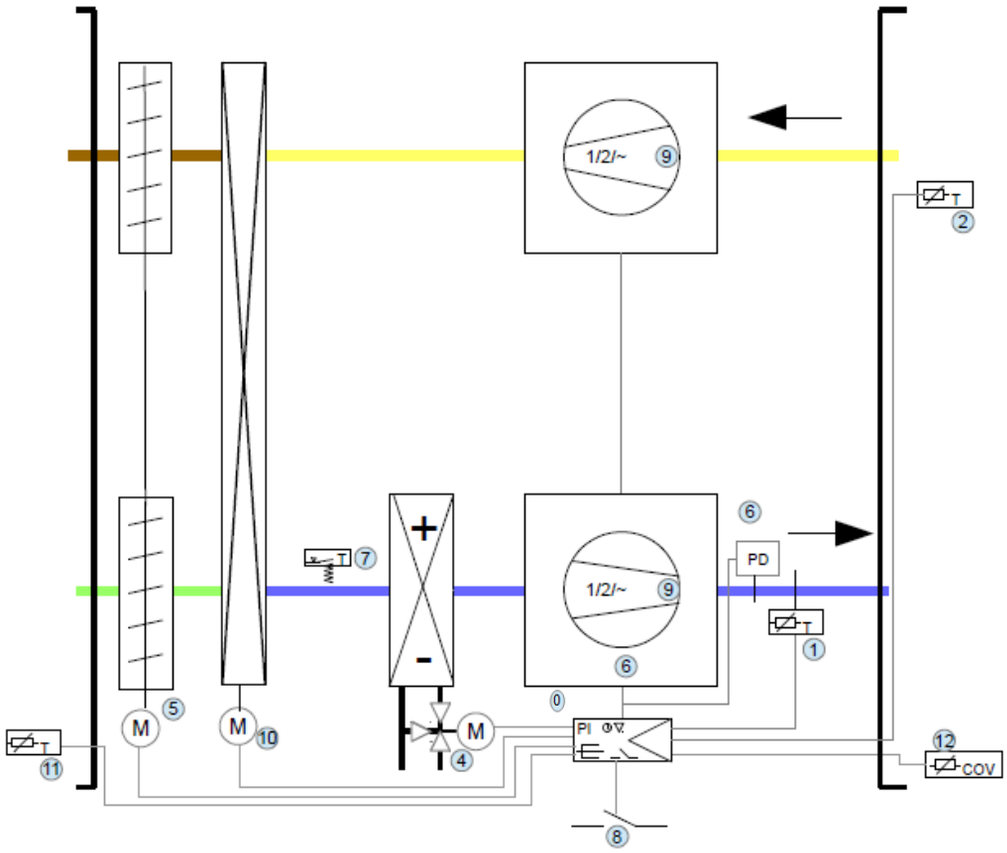
I/O	Terminal	Description	Figure
		RDT600	0
AI1	22-23	Supply air temperature sensor NI1000	1
AI2	24-25	Ambient/return air temperature sensor NI1000	2
AI3	26-27	Fault in filter	
AI4	28-29	Change over sensor	22
AI5 (0-10V)	30-31		
AI6 (0-10V)	32-33	Setpoint offset input	23
DI1	34-35	Pressure switch / operating message for fan	6
DI2	36-35	Anti-freeze thermostat	7
DI3	37-35	ON/OFF switch/ comfort-reduced	8
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	3-way valve control output	4
AO2	40-38	Variable fan control output	9
AO3	41-43	Heat recovery wheel control output	10
AO4	42-43	Setpoint offset signal	
DO11-12	06-07	Fan control, speed 1(slow speed)	9
DO21-22	08-09	Fan control, speed 2 (fast speed)	9
DO31-32	10-11	3-way valve opening	4
DO41-42	12-13	3-way valve closing	4
DO51-52	14-15	Time programme 5	
DO61-62	16-17	Time programme 6	
DO71-72	18-19	Damper control	5
DO81-82	20-21	Fault synthesis	8



I/O	Terminal	Description	Figure
		RDT600	0
AI1	22-23	Supply air temperature sensor NI1000	1
AI2	24-25	Ambient/return air temperature sensor NI1000	2
AI3	26-27	Outdoor temperature sensor	11
AI4	28-29	Change over sensor / Fault in filter	22
AI5 (0-10V)	30-31		
AI6 (0-10V)	32-33	Setpoint offset input	23
DI1	34-35	Pressure switch / operating message for fan	6
DI2	36-35	Anti-freeze thermostat	7
DI3	37-35	Fault in filter / ON/OFF switch/ comfort-reduced	8
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	3-way valve control output	4
AO2	40-38	Variable fan control output	9
AO3	41-43	Heat recovery wheel control output	10
AO4	42-43	Setpoint offset signal	
DO11-12	06-07	Fan control, speed 1(slow speed)	9
DO21-22	08-09	Fan control, speed 2 (fast speed)	9
DO31-32	10-11	3-way valve opening	4
DO41-42	12-13	3-way valve closing	4
DO51-52	14-15	Time programme 5	
DO61-62	16-17	Time programme 6	
DO71-72	18-19	Damper control	5
DO81-82	20-21	Fault synthesis	8

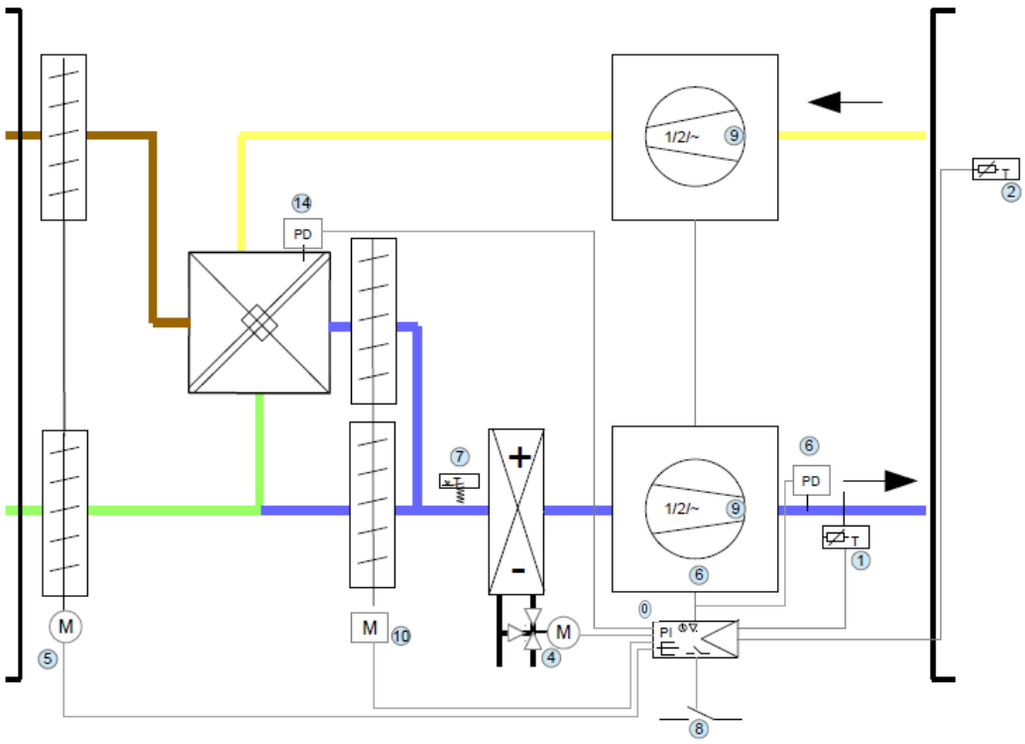


I/O	Terminal	Description	Figure
		RDT600	0
AI1	22-23	Supply air temperature sensor NI1000	1
AI2	24-25	Ambient/return air temperature sensor NI1000	2
AI3	26-27	Fault in filter	
AI4	28-29	Change over sensor	22
AI5 (0-10V)	30-31	Air quality sensor (VOC) / CO2	12
AI6 (0-10V)	32-33	Ambient/return air temperature sensor NI1000 or Setpoint offset input	2/23
DI1	34-35	Pressure switch / operating message for fan	6
DI2	36-35	Anti-freeze thermostat	7
DI3	37-35	ON/OFF switch/ comfort-reduced	8
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	3-way valve control output	4
AO2	40-38	Variable fan control output	9
AO3	41-43	Heat recovery wheel control output	10
AO4	42-43	Setpoint offset signal	
DO11-12	06-07	Fan control, speed 1(slow speed)	9
DO21-22	08-09	Fan control, speed 2 (fast speed)	9
DO31-32	10-11	3-way valve opening	4
DO41-42	12-13	3-way valve closing	4
DO51-52	14-15	Time programme 5	
DO61-62	16-17	Time programme 6	
DO71-72	18-19	Damper control	5
DO81-82	20-21	Fault synthesis	8

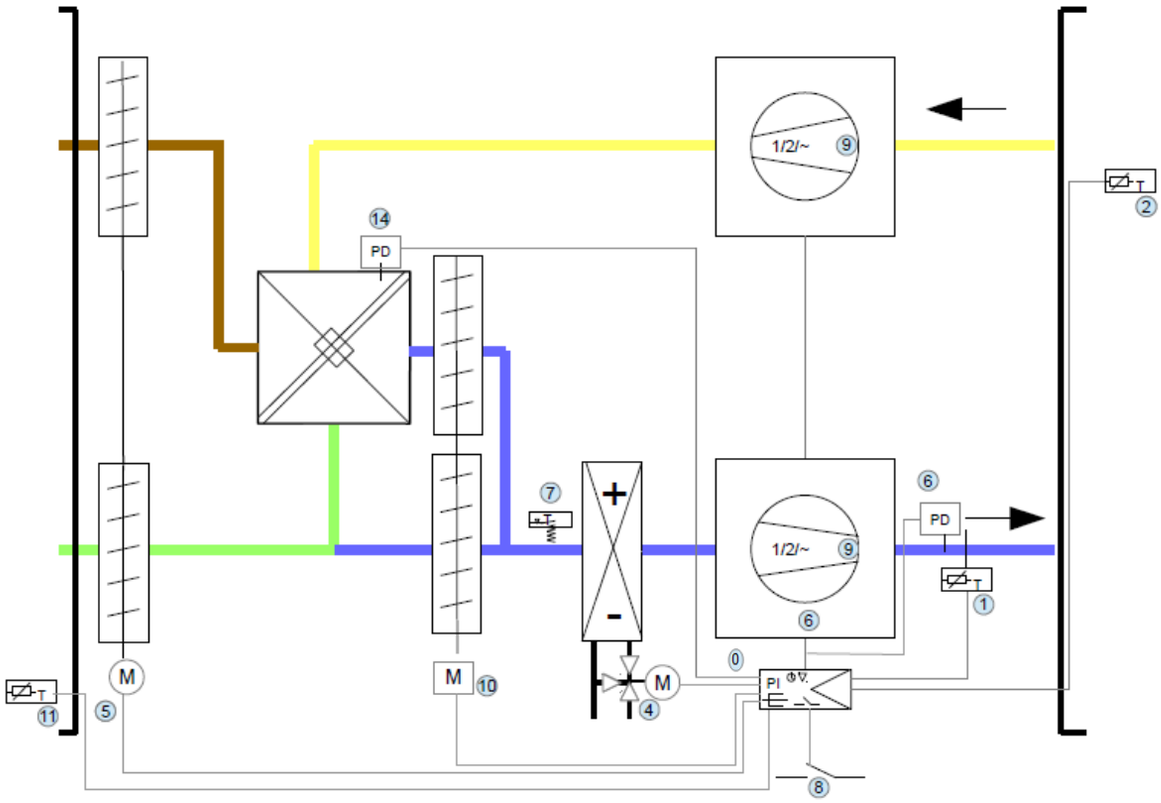


I/O	Terminal	Description	Figure
		RDT600	0
AI1	22-23	Supply air temperature sensor NI1000	1
AI2	24-25	Ambient/return air temperature sensor NI1000	2
AI3	26-27	Outdoor temperature sensor	11
AI4	28-29	Change over sensor / Fault in filter	22
AI5 (0-10V)	30-31	Air quality sensor (VOC) / CO2	12
AI6 (0-10V)	32-33	Ambient/return air temperature sensor NI1000 or Setpoint offset input	2/23
DI1	34-35	Pressure switch / operating message for fan	6
DI2	36-35	Anti-freeze thermostat	7
DI3	37-35	Fault in filter / ON/OFF switch/ comfort-reduced	8
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	3-way valve control output	4
AO2	40-38	Variable fan control output	9
AO3	41-43	Heat recovery wheel control output	10
AO4	42-43	Setpoint offset signal	
DO11-12	06-07	Fan control, speed 1(slow speed)	9
DO21-22	08-09	Fan control, speed 2 (fast speed)	9
DO31-32	10-11	3-way valve opening	4
DO41-42	12-13	3-way valve closing	4
DO51-52	14-15	Time programme 5	
DO61-62	16-17	Time programme 6	
DO71-72	18-19	Damper control	5
DO81-82	20-21	Fault synthesis	8

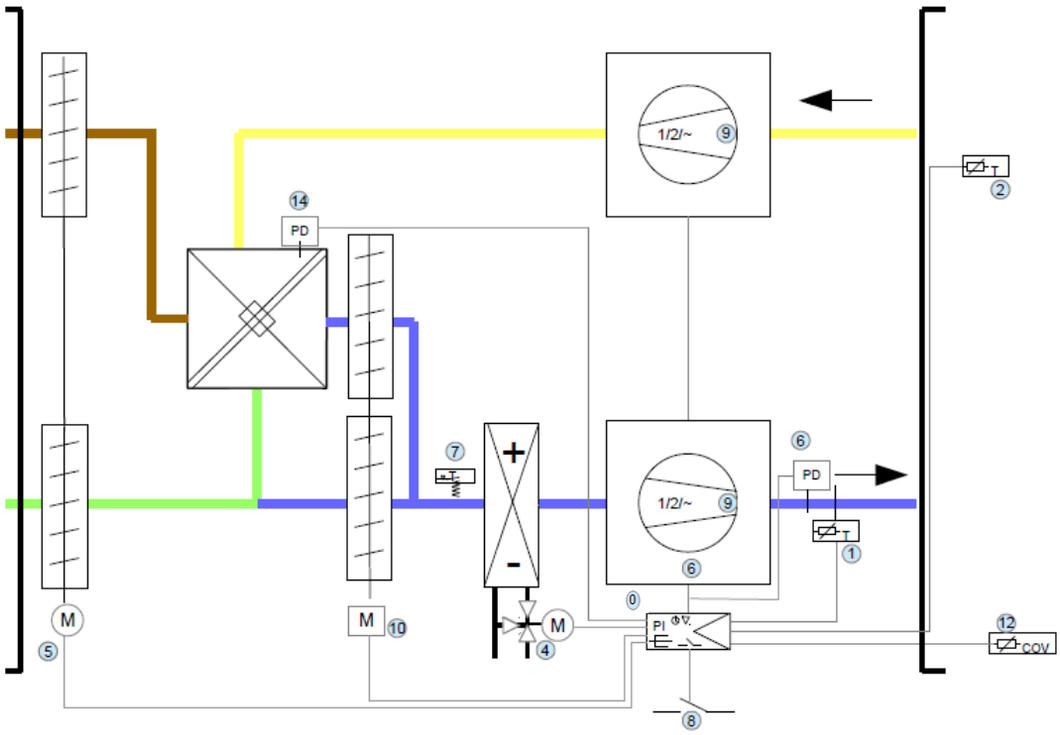
Case 02.020: AHU NA Conv C/HB V1V2VV



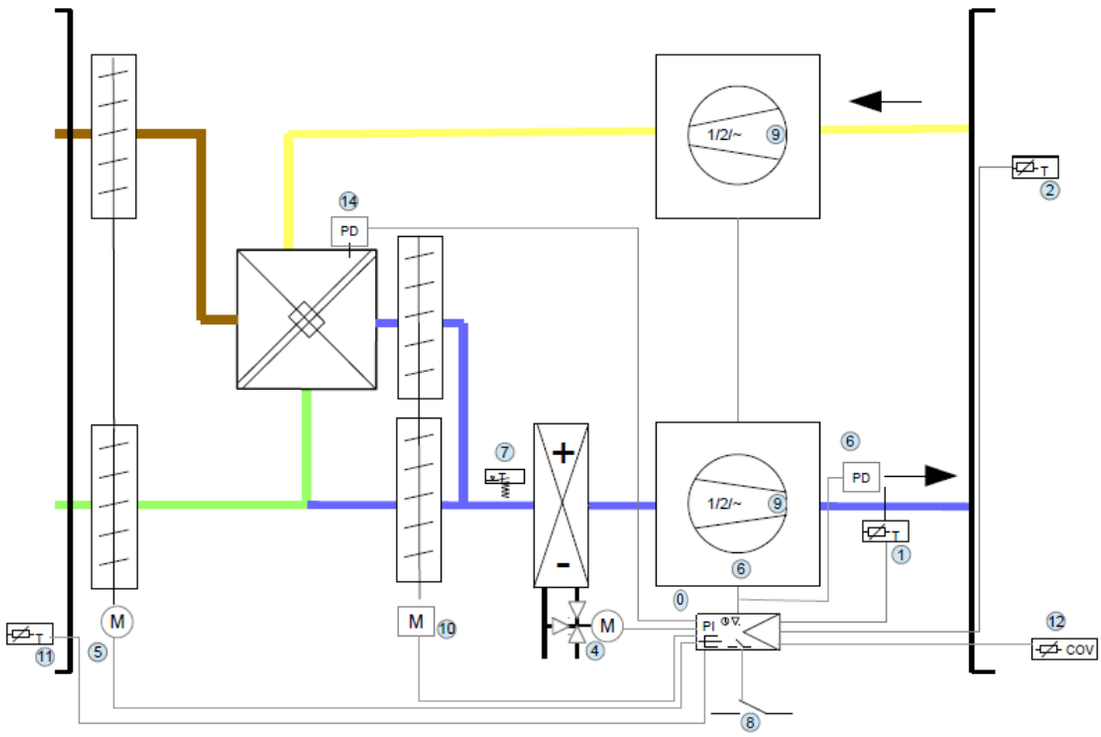
I/O	Terminal	Description	Figure
		RDT600	0
AI1	22-23	Supply air temperature sensor NI1000	1
AI2	24-25	Ambient/return air temperature sensor NI1000	2
AI3	26-27	Fault in filter	
AI4	28-29	Change over sensor	22
AI5 (0-10V)	30-31		
AI6 (0-10V)	32-33	Setpoint offset input	23
DI1	34-35	Pressure switch / operating message for fan	6
DI2	36-35	Anti-freeze thermostat	7
DI3	37-35	Anti-frost pressure switch	14
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	3-way valve control output	4
AO2	40-38	Variable fan control output	9
AO3	41-43		
AO4	42-43	Setpoint offset signal	
DO11-12	06-07	Fan control, speed 1(slow speed)	9
DO21-22	08-09	Fan control, speed 2 (fast speed)	9
DO31-32	10-11	3-way valve opening	4
DO41-42	12-13	3-way valve closing	4
DO51-52	14-15	Control output for converter damper	10
DO61-62	16-17	Time programme 6	
DO71-72	18-19	Damper control	5
DO81-82	20-21	Fault synthesis	8



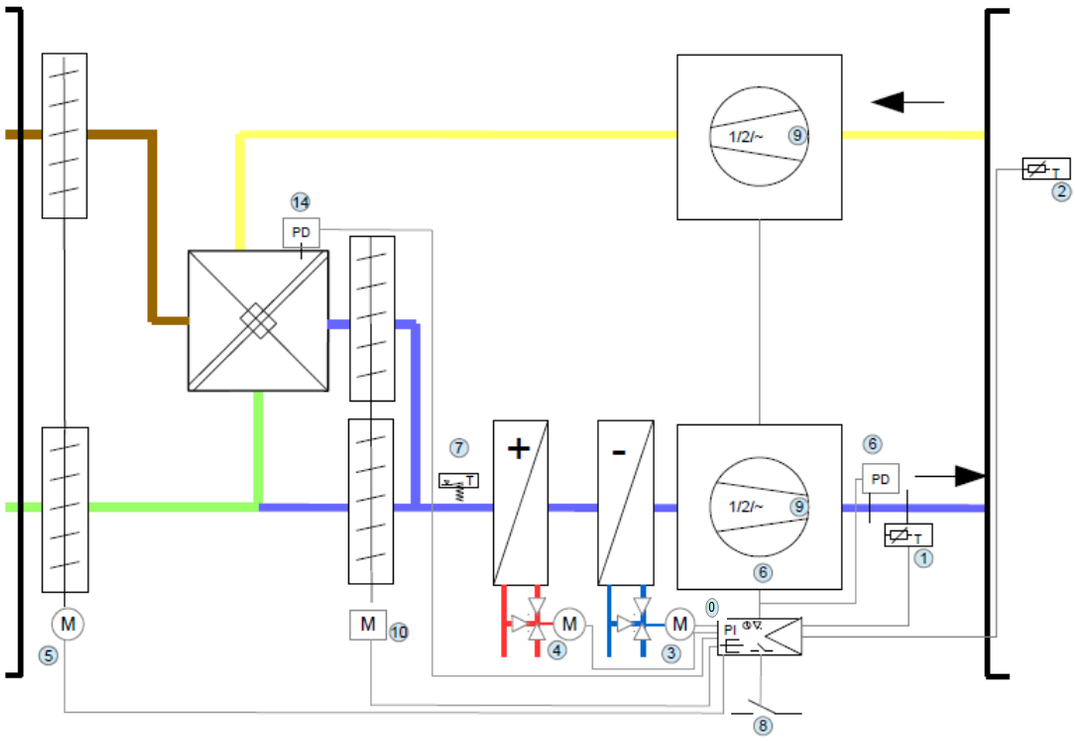
I/O	Terminal	Description	Figure
		RDT600	0
AI1	22-23	Supply air temperature sensor NI1000	1
AI2	24-25	Ambient/return air temperature sensor NI1000	2
AI3	26-27	Outdoor temperature sensor	11
AI4	28-29	Change over sensor/ Fault in filter	22
AI5 (0-10V)	30-31		
AI6 (0-10V)	32-33	Setpoint offset input	23
DI1	34-35	Pressure switch / operating message for fan	6
DI2	36-35	Anti-freeze thermostat	7
DI3	37-35	Anti-frost pressure switch	14
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	3-way valve control output	4
AO2	40-38	Variable fan control output	9
AO3	41-43		
AO4	42-43	Setpoint offset signal	
DO11-12	06-07	Fan control, speed 1(slow speed)	9
DO21-22	08-09	Fan control, speed 2 (fast speed)	9
DO31-32	10-11	3-way valve opening	4
DO41-42	12-13	3-way valve closing	4
DO51-52	14-15	Control output for converter damper	10
DO61-62	16-17	Time programme 6	
DO71-72	18-19	Damper control	5
DO81-82	20-21	Fault synthesis	8



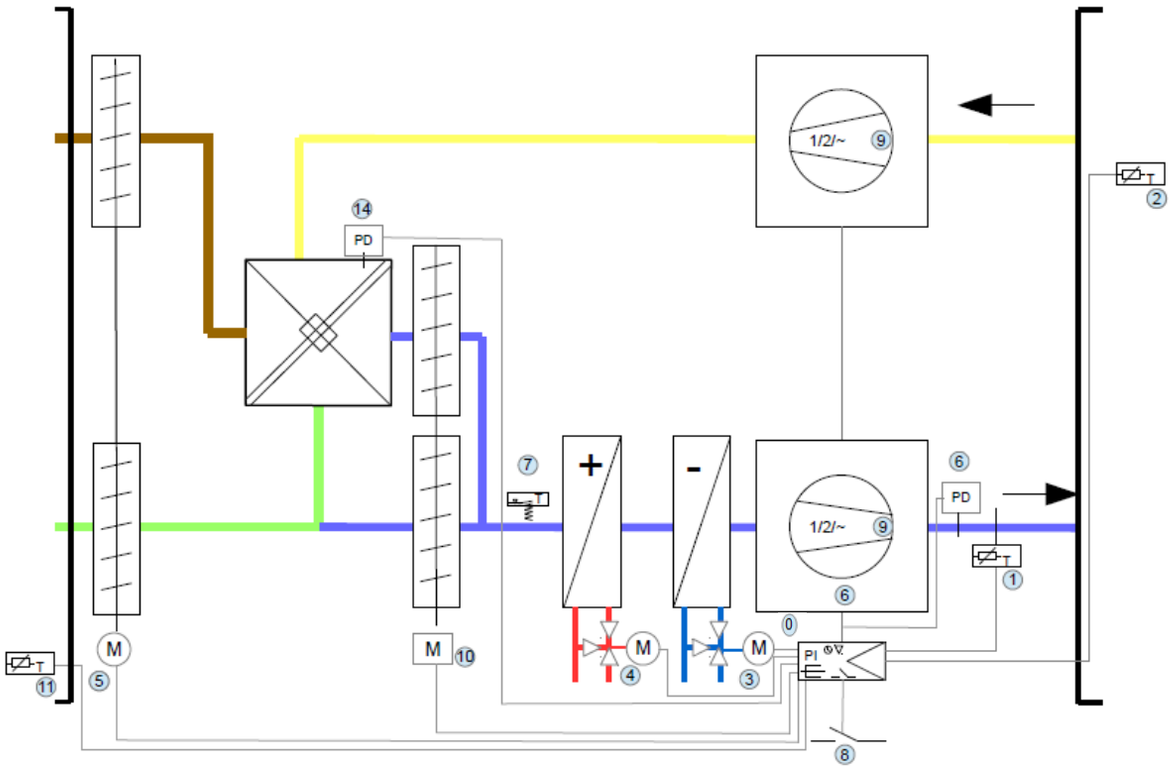
I/O	Terminal	Description	Figure
		RDT600	0
AI1	22-23	Supply air temperature sensor NI1000	1
AI2	24-25	Ambient/return air temperature sensor NI1000	2
AI3	26-27	Fault in filter	
AI4	28-29	Change over sensor	22
AI5 (0-10V)	30-31	Air quality sensor (VOC) / CO2	12
AI6 (0-10V)	32-33	Ambient/return air temperature sensor NI1000 or Setpoint offset input	2/23
DI1	34-35	Pressure switch / operating message for fan	6
DI2	36-35	Anti-freeze thermostat	7
DI3	37-35	Anti-frost pressure switch	14
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	3-way valve control output	4
AO2	40-38	Variable fan control output	9
AO3	41-43		
AO4	42-43	Setpoint offset signal	
DO11-12	06-07	Fan control, speed 1(slow speed)	9
DO21-22	08-09	Fan control, speed 2 (fast speed)	9
DO31-32	10-11	3-way valve opening	4
DO41-42	12-13	3-way valve closing	4
DO51-52	14-15	Control output for converter damper	10
DO61-62	16-17	Time programme 6	
DO71-72	18-19	Damper control	5
DO81-82	20-21	Fault synthesis	8



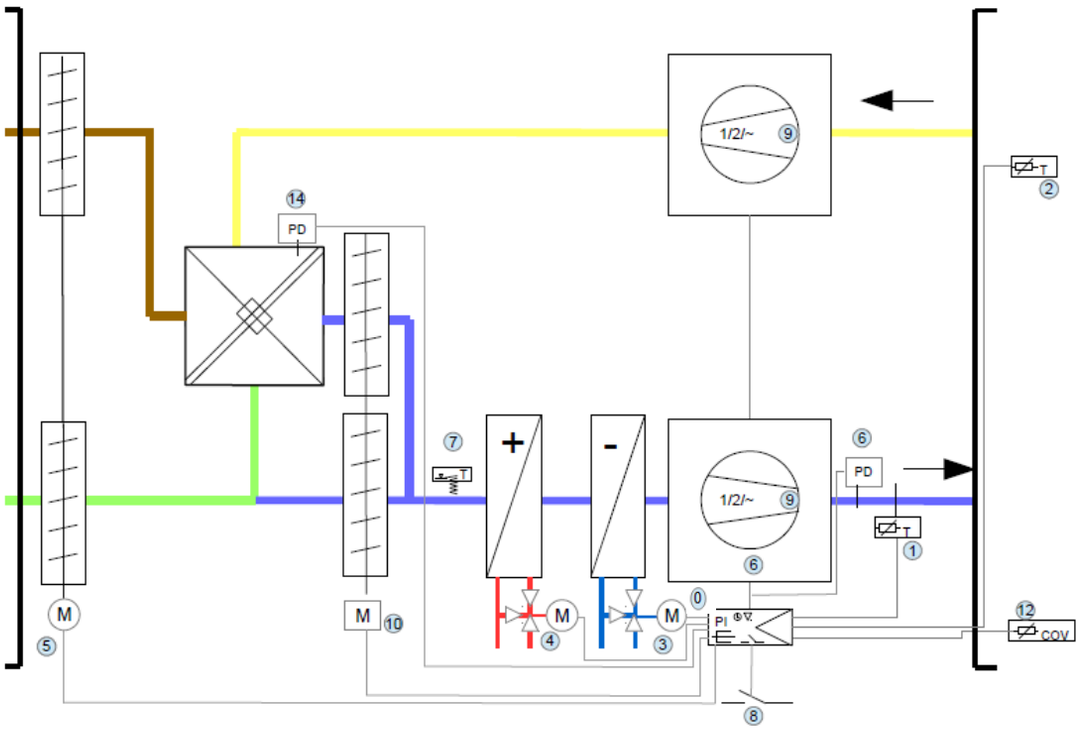
I/O	Terminal	Description	Figure
		RDT600	0
AI1	22-23	Supply air temperature sensor NI1000	1
AI2	24-25	Ambient/return air temperature sensor NI1000	2
AI3	26-27	Outdoor temperature sensor	11
AI4	28-29	Change over sensor/ Fault in filter	22
AI5 (0-10V)	30-31	Air quality sensor (VOC) / CO2	12
AI6 (0-10V)	32-33	Ambient/return air temperature sensor NI1000 or Setpoint offset input	2/23
DI1	34-35	Pressure switch / operating message for fan	6
DI2	36-35	Anti-freeze thermostat	7
DI3	37-35	Anti-frost pressure switch	14
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	3-way valve control output	4
AO2	40-38	Variable fan control output	9
AO3	41-43		
AO4	42-43	Setpoint offset signal	
DO11-12	06-07	Fan control, speed 1(slow speed)	9
DO21-22	08-09	Fan control, speed 2 (fast speed)	9
DO31-32	10-11	3-way valve opening	4
DO41-42	12-13	3-way valve closing	4
DO51-52	14-15	Control output for converter damper	10
DO61-62	16-17	Time programme 6	
DO71-72	18-19	Damper control	5
DO81-82	20-21	Fault synthesis	8



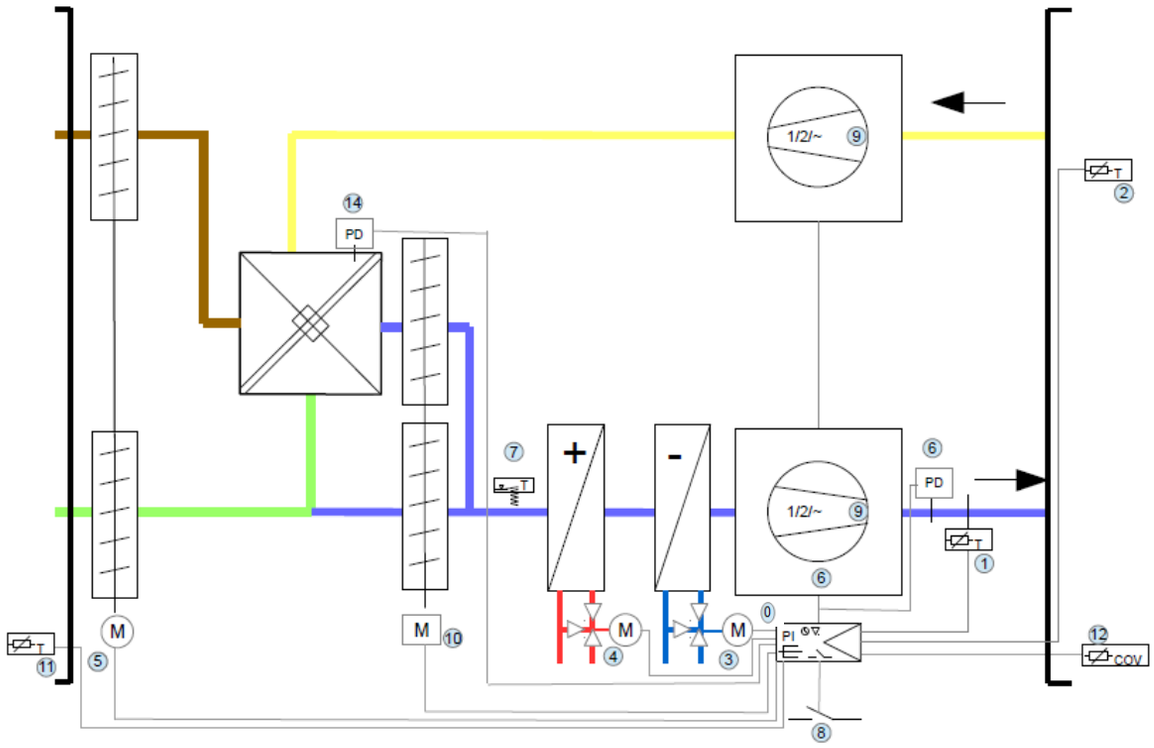
I/O	Terminal	Description	Figure
		RDT600	0
AI1	22-23	Supply air temperature sensor NI1000	1
AI2	24-25	Ambient/return air temperature sensor NI1000	2
AI3	26-27		
AI4	28-29	Fault in filter	
AI5 (0-10V)	30-31		
AI6 (0-10V)	32-33	Setpoint offset input	23
DI1	34-35	Pressure switch / operating message for fan	6
DI2	36-35	Anti-freeze thermostat	7
DI3	37-35	Anti-frost pressure switch	14
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	Hot 3-way valve control output	4
AO2	40-38	Variable fan control output	9
AO3	41-43	Cold 3-way valve control output	3
AO4	42-43	Setpoint offset signal	
DO11-12	06-07	Fan control, speed 1	9
DO21-22	08-09	Control output for converter damper	10
DO31-32	10-11	Hot 3-way valve opening	4
DO41-42	12-13	Hot 3-way valve closing	4
DO51-52	14-15	Cold 3-way valve opening	3
DO61-62	16-17	Cold 3-way valve closing	3
DO71-72	18-19	Damper control	5
DO81-82	20-21	Fault synthesis	8



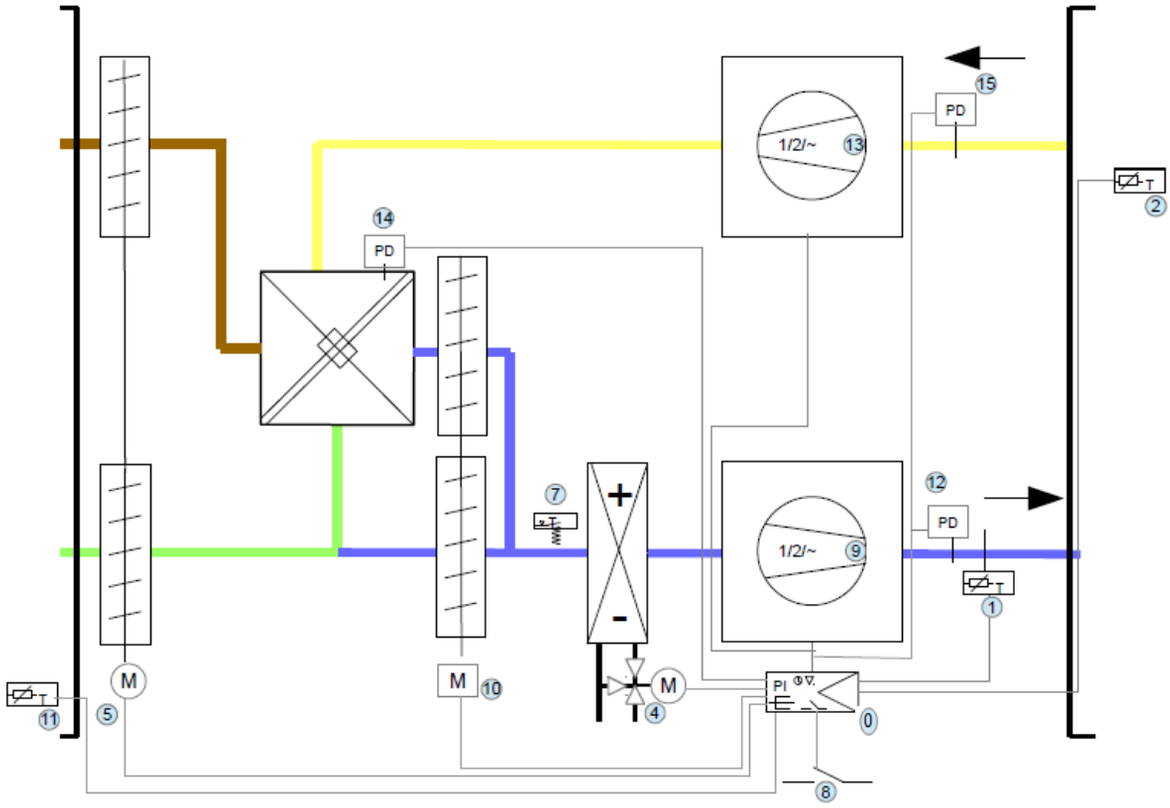
I/O	Terminal	Description	Figure
		RDT600	0
AI1	22-23	Supply air temperature sensor NI1000	1
AI2	24-25	Ambient/return air temperature sensor NI1000	2
AI3	26-27	Outdoor temperature sensor	11
AI4	28-29	Fault in filter	
AI5 (0-10V)	30-31		
AI6 (0-10V)	32-33	Setpoint offset input	23
DI1	34-35	Pressure switch / operating message for fan	6
DI2	36-35	Anti-freeze thermostat	7
DI3	37-35	Anti-frost pressure switch	14
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	Hot 3-way valve control output	4
AO2	40-38	Variable fan control output	9
AO3	41-43	Cold 3-way valve control output	3
AO4	42-43	Setpoint offset signal	
DO11-12	06-07	Fan control, speed 1	9
DO21-22	08-09	Control output for converter damper	10
DO31-32	10-11	Hot 3-way valve opening	4
DO41-42	12-13	Hot 3-way valve e closing	4
DO51-52	14-15	Cold 3-way valve opening	3
DO61-62	16-17	Cold 3-way valve closing	3
DO71-72	18-19	Damper control	5
DO81-82	20-21	Fault synthesis	8



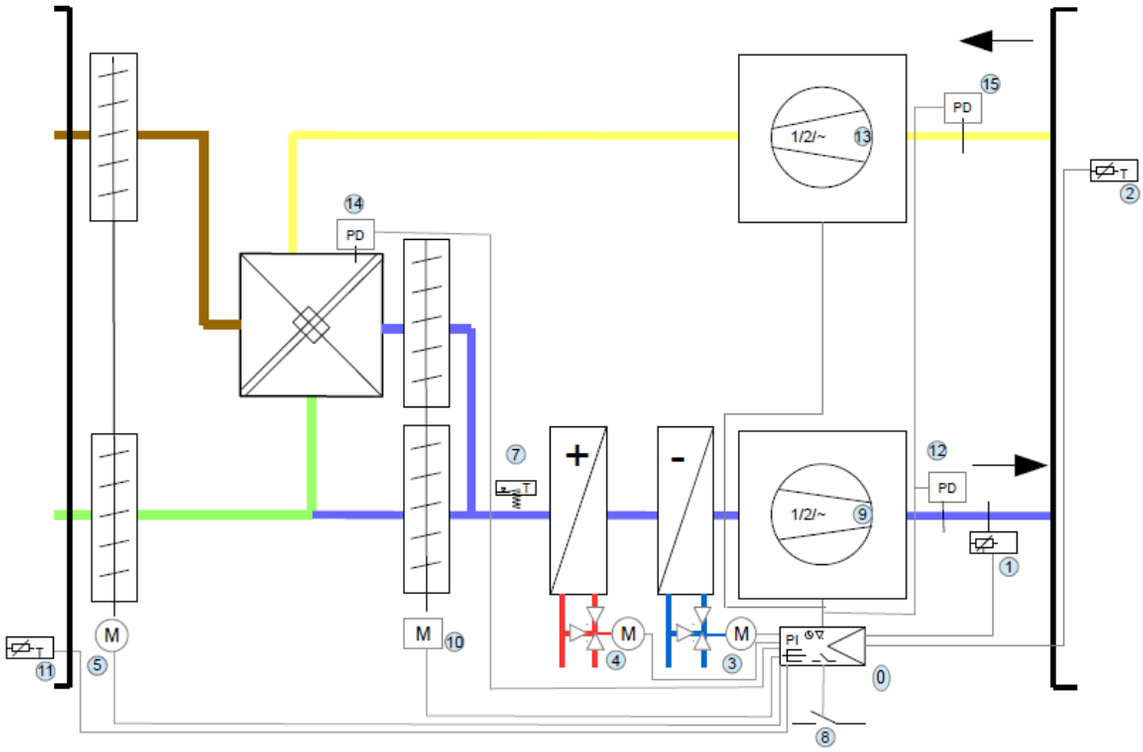
I/O	Terminal	Description	Figure
		RDT600	0
AI1	22-23	Supply air temperature sensor NI1000	1
AI2	24-25	Ambient/return air temperature sensor NI1000	2
AI3	26-27		
AI4	28-29	Fault in filter	
AI5 (0-10V)	30-31	Air quality sensor (VOC) / CO2	12
AI6 (0-10V)	32-33	Ambient/return air temperature sensor NI1000 or Setpoint offset input	2/23
DI1	34-35	Pressure switch / operating message for fan	6
DI2	36-35	Anti-freeze thermostat	7
DI3	37-35	Anti-frost pressure switch	14
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	Hot 3-way valve control output	4
AO2	40-38	Variable fan control output	9
AO3	41-43	Cold 3-way valve control output	3
AO4	42-43	Setpoint offset signal	
DO11-12	06-07	Fan control, speed 1	9
DO21-22	08-09	Control output for converter damper	10
DO31-32	10-11	Hot 3-way valve opening	4
DO41-42	12-13	Hot 3-way valve closing	4
DO51-52	14-15	Cold 3-way valve opening	3
DO61-62	16-17	Cold 3-way valve closing	3
DO71-72	18-19	Damper control	5
DO81-82	20-21	Fault synthesis	8



I/O	Terminal	Description	Figure
		RDT600	0
AI1	22-23	Supply air temperature sensor NI1000	1
AI2	24-25	Ambient/return air temperature sensor NI1000	2
AI3	26-27	Outdoor temperature sensor	11
AI4	28-29	Fault in filter	
AI5 (0-10V)	30-31	Air quality sensor (VOC) / CO2	12
AI6 (0-10V)	32-33	Ambient/return air temperature sensor NI1000 or Setpoint offset input	2/23
DI1	34-35	Pressure switch / operating message for fan	6
DI2	36-35	Anti-freeze thermostat	7
DI3	37-35	Anti-frost pressure switch	14
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	Hot 3-way valve control output	4
AO2	40-38	Variable fan control output	9
AO3	41-43	Cold3-way valve control output	3
AO4	42-43	Setpoint offset signal	
DO11-12	06-07	Fan control, speed 1	9
DO21-22	08-09	Control output for converter damper	10
DO31-32	10-11	Hot 3-way valve opening	4
DO41-42	12-13	Hot 3-way valve closing	4
DO51-52	14-15	Cold 3-way valve opening	3
DO61-62	16-17	Cold 3-way valve closing	3
DO71-72	18-19	Damper control	5
DO81-82	20-21	Fault synthesis	8



I/O	Terminal	Description	Figure
		RDT600	0
AI1	22-23	Supply air temperature sensor NI1000	1
AI2	24-25	Ambient/return air temperature sensor NI1000	2
AI3	26-27	Outdoor temperature sensor	11
AI4	28-29	Change over sensor	22
AI5 (0-10V)	30-31	Supply air pressure sensor	12
AI6 (0-10V)	32-33	Return air pressure sensor	15
DI1	34-35	Anti-frost pressure switch	14
DI2	36-35	Anti-freeze thermostat	7
DI3	37-35	Fault in filter / ON/OFF switch/ comfort-reduced	8
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	3-way valve control output	4
AO2	40-38	Supply air variable fan control output	9
AO3	41-43	Return air variable fan control output	13
AO4	42-43		
DO11-12	06-07	Time programme 1	
DO21-22	08-09	Time programme 2	
DO31-32	10-11	3-way valve opening	4
DO41-42	12-13	3-way valve closing	4
DO51-52	14-15	Control output for converter damper	10
DO61-62	16-17	Time programme 6	
DO71-72	18-19	Damper control	5
DO81-82	20-21	Fault synthesis	8



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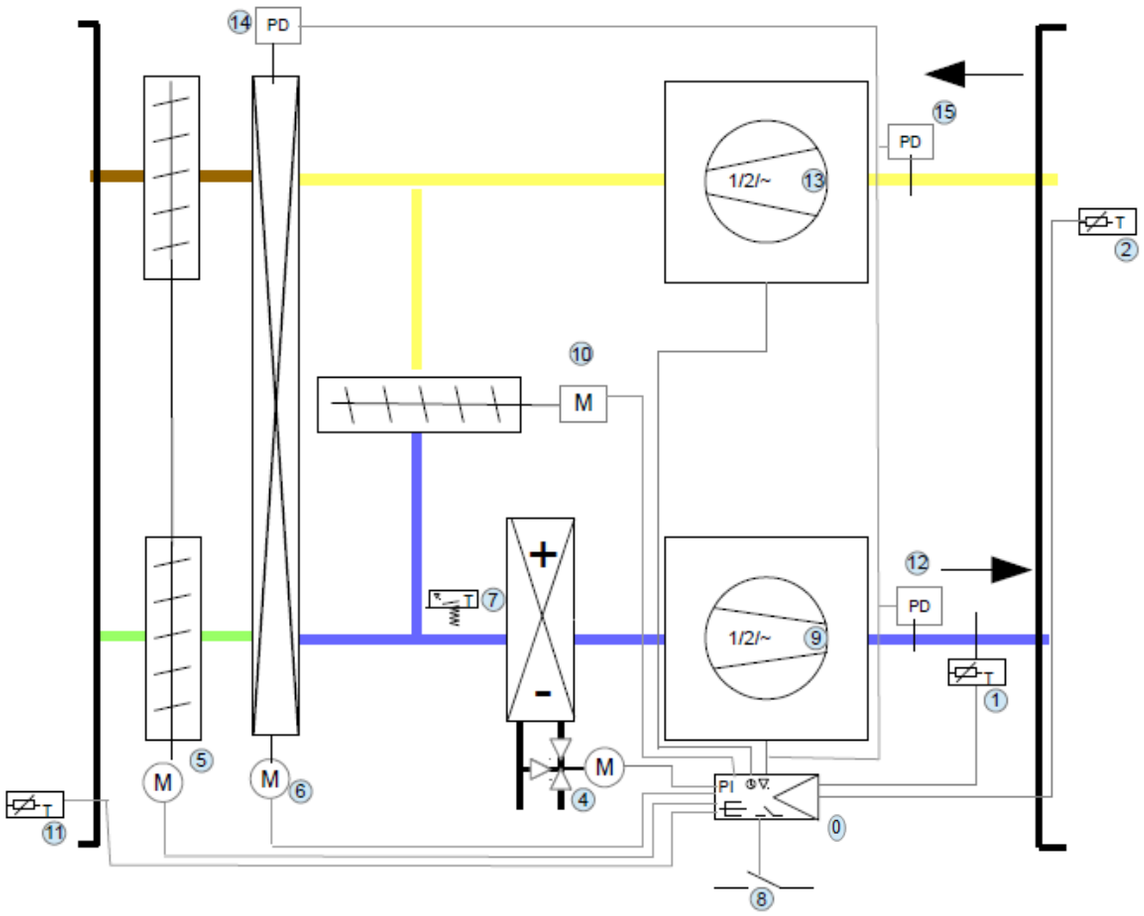
AI5 (0-10V)	30-31	Supply air pressure sensor	12
AI6 (0-10V)	32-33	Return air pressure sensor	15
DI1	34-35	Anti-frost pressure switch	14
DI2	36-35	Anti-freeze thermostat	7
DI3	37-35	ON/OFF switch/ comfort-reduced	8
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	Hot 3-way valve control output	4
AO2	40-38	Supply air variable fan control output	9
AO3	41-43	Return air variable fan control output	13
AO4	42-43	Cold 3-way valve control output	3
DO11-12	06-07	Hot 3-way valve opening	4
DO21-22	08-09	Hot 3-way valve closing	4
DO31-32	10-11	Cold 3-way valve opening	3
DO41-42	12-13	Cold 3-way valve closing	3
DO51-52	14-15	Control output for converter damper	10
DO61-62	16-17	Time programme 6	
DO71-72	18-19	Damper control	5
DO81-82	20-21	Fault synthesis	8



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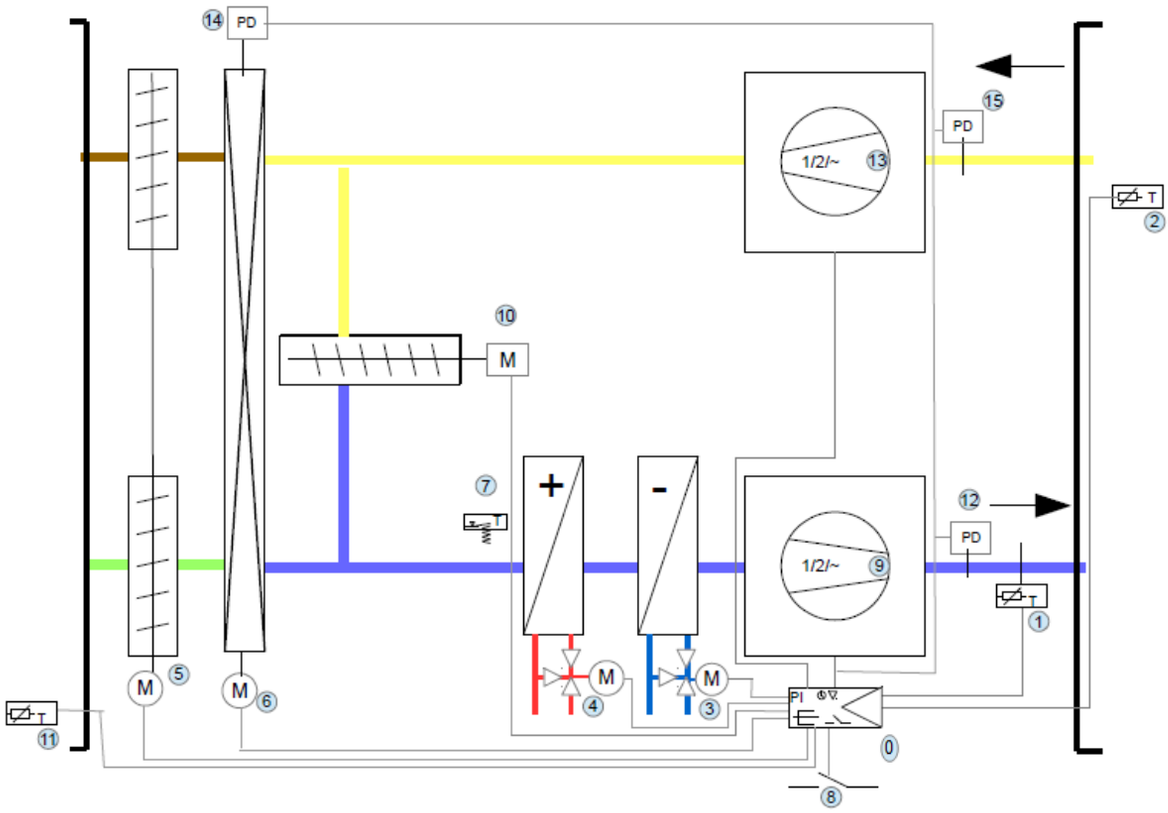
AI5 (0-10V)	30-31	Supply air pressure sensor	12
AI6 (0-10V)	32-33	Return air pressure sensor	15
DI1	34-35	Anti-frost pressure switch	14
DI2	36-35	Anti-freeze thermostat	7
DI3	37-35	Fault in filter / ON/OFF switch / comfort-reduced	8
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	3-way valve control output	4
AO2	40-38	Supply air variable fan control output	9
AO3	41-43	Return air variable fan control output	13
AO4	42-43	Heat recovery wheel control output	6
DO11-12	06-07	Time programme 1	
DO21-22	08-09	Time programme 2	
DO31-32	10-11	3-way valve opening	4
DO41-42	12-13	3-way valve closing	4
DO51-52	14-15	Control output for converter damper	10
DO61-62	16-17	Heat recovery wheel control	6
DO71-72	18-19	Damper control	5
DO81-82	20-21	Fault synthesis	8

Case 02.031: AHU NA RecWh CB HB V1V2VV OutT PD



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		RDT600	0
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AI2	24-25	Ambient/return air temperature sensor NI1000	2
AI3	26-27	Outdoor temperature sensor	11
AI4	28-29	Fault in filter	
AI5 (0-10V)	30-31	Supply air differential pressure sensor	12
AI6 (0-10V)	32-33	Return air differential pressure sensor	15
DI1	34-35	Anti-frost pressure switch	14
DI2	36-35	Anti-freeze thermostat	7
DI3	37-35	ON/OFF switch/ comfort-reduced	8
DI41/DI42 (230V)	04-05	Alarm acknowledgement	8
AO1	39-38	Hot 3-way valve control output	4
AO2	40-38	Supply air variable fan control output	9
AO3	41-43	Return air variable fan control output	13
AO4	42-43	Cold 3-way valve control output	3
DO11-12	06-07	Hot 3-way valve opening	4
DO21-22	08-09	Hot 3-way valve closing	4
DO31-32	10-11	Cold 3-way valve opening	3
DO41-42	12-13	Cold 3-way valve closing	3
DO51-52	14-15	Control output for converter damper	10
DO61-62	16-17	Heat recovery wheel control	6
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DO81-82	20-21	Fault synthesis	8