Controllers and Systems for HVAC Applications

Heating and District Heating Controllers

Edition January 2012

Information Sheet **T 5500 EN**

	Heating and district heating controllers					
TROVIS	**5573**	**5575**	**5576**	**5579**	**5610-01**	**5610-00**
Control circuits	max. 2	max. 2	max. 2	max. 3	max. 1	max. 2
Heating	max. 2	max. 2	max. 2	max. 3	max. 1	max. 1
DHW	1	1	1	1	max. 1	max. 1
Inputs						
Sensors	8	8	15 [7]	17 [7]	5	8
Room panel	2	2	2	3	1	1
Binary inputs	2	2	15 [7]	17 [7]	5	8
Other inputs	0 to 10 V [1]	0/4 to 20 mA or 0 to 10 V			–	0 to 10 V
Possible sensors	Pt 1000	Pt 100/500/1000, Ni 1000, PTC, NTC			Pt 1000	
Outputs						
Control signal y	2	2	2	3	1	2
Three-point stepping	•	•	•	•	•	•
On/off	•	•	•	•	•	•
Continuous-action	• [2]	–	•	•	–	•
Binary outputs	3	3	4	5	1	3
0 to 10 V	1 [1]	–	2	3	–	2
Interfaces						
Device bus RS-485	–	•	•	•	–	
Modbus RS-485	• [3]	–	• [8]	• [8]	On request	
Modbus RS-232	• [4]	–	•	•	On request	
Meter bus	• [5]	–	• [9]	• [9]	–	
Configuration, parameterization and data transmission						
Data input at PC	TROVIS-VIEW software					
Data cable	• [6]	• [6]	• [6]	• [6]	•	
Memory pen	–	–	–	–	•	
Memory module	•	•	•	•	–	–
Mini module	•	•	•	•	–	–
Historical data storage	•				–	–
Data logging module	•	•	•	•	–	–
Internal	–	–	•	•	–	–
Operating voltage	85 to 250 V, 48 to 62 Hz	230 V, 48 to 62 Hz			90 to 253 V~	
Power consumption	max. 1.5 VA	max. 4 VA	max. 5 VA	max. 6 VA	max. 2.8 VA	max. 4 VA
Dimensions [mm]						
Width W	144	144	144	144	147	147
Height H	96	98	98	98	96	96
Depth D	54	60	81	81	49	49
						
Data Sheet	T 5573 EN	T 5575 EN	T 5576 EN	T 5579 EN	T 5610 EN	

1) 0 to 10 V input can alternatively be used as 0 to 10 V output
2) Rk1 only
3) Using communications module RS-485
4) Using communications module RS-232
5) Using meter bus/Modbus gateway 1400-9867
6) Using USB converter 3
7) Optionally sensor or binary input;
Total of all sensor and binary inputs of TROVIS 5576 = 15;
Total of all sensor and binary inputs of TROVIS 5579 = 17
8) Using a cable converter
9) Optional meter bus plug-in module

	Programmable logic controller (PLC)	Room controller	Room panel	Modbus I/O module (1402-0328) for TROVIS 5571/5572
TROVIS	**5571**	**5572**	**5570**	
Control circuits	Individually configurable	1	–	–
Heating	Individually configurable	1	–	–
DHW	Individually configurable	–	–	–
Inputs				
Sensor	17 [1]	1 [2]	1 [2]	max. 2 [3]
Binary inputs	17 [1]	2	–	max. 6 [3]
Other inputs	17 [1]	1 presence button [2] 1 set point adjuster	–	max. 4 [3]
Possible sensors	Pt 100/500/1000/2000 Ni 200/1000/2000 PTC/NTC, 1 to 2 kΩ	–	–	Pt 1000 0 to 1000 Ω [3]
Outputs				
Control signal y	Individually configurable		–	–
Three-point stepping	Individually configurable	•	–	–
On/off	Individually configurable	•	–	–
Continuous-action	Individually configurable	–	–	–
Binary outputs	12	2 (triac)	–	4
0 to 10 V	4	2	–	max. 2 [3]
Interfaces				
Device bus RS-485	–	–	•	–
Modbus RS-485	•	•	–	•
Modbus RS-232	•	–	–	–
Meter bus	•	–	–	–
Operating voltage	230 V AC, 48 to 62 Hz	24 V AC	15 to 36 V DC 12 to 26,5 V AC, 48 to 62 Hz	230 V AC
Power consumption	8 VA	0.6 VA	0.6 VA	1 VA
Dimensions [mm]				
Width W	144	113	113	94
Height H	96	91	91	96
Depth D	111	30	30	60
				
Data Sheet	T 5571 EN	T 5572 EN	T 5570 EN	T 5571 EN, T 5572 EN

1) Optionally sensor, 0/4 to 20 mA, 0 to 10 V inputs or binary input: Total of all inputs = 17

2) Internal

3) Max. 6 inputs (refer to T 5571 EN for details) that can be used as:
– Binary input (counter input)
– Pt 1000 or 0 to 1000 Ω input
– 0 to 10 V input
– 0 to 10 V output

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