

Panel-Mounted Thermostat EM Series up to 500 °C (602021)

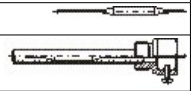
- Liquid expansion
- Self-monitoring
- Safety switch-off
- 1, 2, 3, or 4 single-pole snap-action switches possible



Order details

(1) Basic type	
602021	JUMO Panel-mounting thermostat, EM series
(2) Basic type extension	
0001	EM-1 temperature controller (TR), 1-pole
0002	EM-2 temperature monitor (TW), 1-pole
0003	EM-3 temperature monitor, fixed settings TW, 1-pole
0004	EM-4 temperature limiter, fixed settings TB, 1-pole
0005	EM-5 temperature limiter, adjustable (TB), 1-pole
0013	EM-13 temperature controller (TR/TW), 2-pole
0014	EM-14 temperature controller (TR/TB), 2-pole
0023	EM-23 temperature monitor (TW/TW), 2-pole
0024	EM-24 temperature monitor (TW/TB), 2-pole
0033	EM-33 temperature monitor (TW/TW), 2-pole
0044	EM-44 temperature limiter (TB/TB), 2-pole
0054	EM-54 temperature limiter (TB/TB), 2-pole
0133	EM-133 temperature controller (TR/TW/TW), 3-pole
0134	EM-134 temperature controller (TR/TW/TB), 3-pole
0233	EM-233 temperature monitor (TW/TW/TW), 3-pole
0333	EM-333 temperature monitor (TW/TW/TW), 3-pole
0444	EM-444 temperature limiter (TB/TB/TB), 3-pole
0544	EM-544 temperature limiter (TB/TB/TB), 3-pole
1333	EMF-1333 temperature controller TR/TW/TW/TW
2333	EM-2333 temperature monitor (TW/TW/TW/TW), 4-pole
3333	EM-3333 temperature monitor (TW/TW/TW/TW), 4-pole
(3) Control range 1	
000	Fixed limit value
013	-20...+40 °C
021	0 to 50 °C
025	0 to 100 °C
027	0...150 °C
028	0...200 °C
041	20 to 90 °C
045	20...400 °C
046	20...500 °C
052	30 to 110 °C
062	50...200 °C
063	50...250 °C
064	50...300 °C
093	230..650°C
(4) Limit value STW/STB	
000	With adjustable control / limit value
100	100 °C
95	95 °C
(5) Switching differential	
00	Without switching differential
01	10 %
10	1 %

25	2,5 %
30	3 %
50	5 %
60	6 %
70	7 %
(6) Capillary length	
0	without capillary
1000	1000 mm
2000	2000 mm
3000	3000 mm
4000	4000 mm
5000	5000 mm
(7) Material of capillary	
20	CrNi (stainless steel 1.4571)
40	Cu (copper)
(8) Process connection	
10	Plain cylindrical probe
20	Screw-in thermowell
(9) Thread	
00	Without thread
13	G 1/2
(10) Process connection material	
00	Without process connection
20	CrNi (stainless steel)
46	CuZn (brass)
(11) Fitting length	
000	Without pocket
100	100 mm
120	120 mm
150	150 mm
200	200 mm
300	300 mm
(12) Immersion tube diameter	
00	Without thermowell
10	10 mm
8	8 mm
(13) Probe diameter	
6	6 mm
8	8 mm
(14) Extra codes	
000	ohne Typenzusatz
025	Befestigungsbrücke aus Metall
707	Temperature compensation
574	Microswitch with opening contact, restart lock and additional signal contact (only for TB and STB)
699	Screw connection up to 2.5 mm ²
702	Snap action contact with gold-plating
704	Mounting of housing with 2 screws M4, spacing 28 mm
705	Mounting of housing with 2 screws M3, spacing 33 mm
710	Central mounting M10x1 with cap nut
950	Railway application


Order code

(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14)
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Admissible control ranges according to basic type, product group 602021

Control range	TR/TW/TB	STW/STB
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013	-20 to +40 °C	X	
021	0 to 50 °C	X	
025	0 to 100 °C	X	
027	0 to 150 °C	X	
028	0 to 200 °C	X	
041	20 to 90 °C	X	
045	20 to 400 °C	X	
046	20 to 500 °C	X	
052	30 to 110 °C	X	
062	50 to 200 °C	X	
063	50 to 250 °C	X	
064	50 to 300 °C	X	
075	75 to 100 °C		X
085	85 to 100 °C		X
090	120 to 150 °C		X
091	160 to 200 °C		X
092	210 to 250 °C		X
094	250 to 300 °C		X
095	300 to 400 °C		X
096	350 to 500 °C		X


Stock versions

Order code	Control range 1	Capillary length	Probe diameter	Part no.
602021/0001-013-000-25-2000-40-10-00-00-000-00-6/000	-20...+40 °C	2000 mm	6 mm	60001231
602021/0001-021-000-25-1000-40-10-00-00-000-00-6/000	0 to 50 °C	1000 mm	6 mm	60000492
602021/0001-041-000-70-1000-40-10-00-00-000-00-6/000	20 to 90 °C	1000 mm	6 mm	60000493
602021/0001-025-000-25-1000-40-10-00-00-000-00-6/000	0 to 100 °C	1000 mm	6 mm	60000494
602021/0001-025-000-25-2000-40-10-00-00-000-00-6/000	0 to 100 °C	2000 mm	6 mm	60000219
602021/0001-052-000-70-1000-40-10-00-00-000-00-6/000	30 to 110 °C	1000 mm	6 mm	60000285
602021/0001-027-000-25-1000-40-10-00-00-000-00-6/000	0...150 °C	1000 mm	6 mm	60000921
602021/0001-027-000-25-2000-40-10-00-00-000-00-6/000	0...150 °C	2000 mm	6 mm	60000217
602021/0001-028-000-25-1000-40-10-00-00-000-00-6/000	0...200 °C	1000 mm	6 mm	60001141
602021/0001-028-000-25-2000-40-10-00-00-000-00-6/000	0...200 °C	2000 mm	6 mm	60000220
602021/0001-064-000-25-1000-40-10-00-00-000-00-6/000	50...300 °C	1000 mm	6 mm	60000495
602021/0001-064-000-25-2000-40-10-00-00-000-00-6/000	50...300 °C	2000 mm	6 mm	60000923
602021/0001-046-000-50-1000-20-10-00-00-000-00-8/000	20...500 °C	1000 mm	8 mm	60002083
602021/0002-021-000-25-1000-40-10-00-00-000-00-6/000	0 to 50 °C	1000 mm	6 mm	60000214
602021/0002-027-000-25-1000-40-10-00-00-000-00-6/000	0...150 °C	1000 mm	6 mm	60000497
602021/0002-027-000-25-2000-40-10-00-00-000-00-6/000	0...150 °C	2000 mm	6 mm	60000213
602021/0002-028-000-25-1000-40-10-00-00-000-00-6/000	0...200 °C	1000 mm	6 mm	60001263
602021/0002-064-000-25-1000-40-10-00-00-000-00-6/000	50...300 °C	1000 mm	6 mm	60001380
602021/0002-046-000-50-1000-20-10-00-00-000-00-8/000	20...500 °C	1000 mm	8 mm	60002084
602021/0002-046-000-50-2000-20-10-00-00-000-00-8/000	20...500 °C	2000 mm	8 mm	60002112
602021/0005-027-000-25-1000-40-10-00-00-000-00-6/000	0...150 °C	1000 mm	6 mm	60000924
602021/0005-028-000-25-1000-40-10-00-00-000-00-6/000	0...200 °C	1000 mm	6 mm	60000929
602021/0005-064-000-25-1000-40-10-00-00-000-00-6/000	50...300 °C	1000 mm	6 mm	60000211
602021/0005-046-000-50-1000-20-10-00-00-000-00-8/000	20...500 °C	1000 mm	8 mm	60002085
602021/0050-095-000-00-1000-20-10-00-00-000-00-6/025,574,	300...400 °C	1000 mm	6 mm	60002244
602021/0050-096-000-00-1000-20-10-00-00-000-00-6/025,574,	350...500 °C	1000 mm	6 mm	60002245

Accessories see price sheet:

- Process Connections for Thermostats (606710)
- Setpoint Adjuster for Thermostats (606715)