SIEMENS



Thermal Reset Limit Thermostats

RAK-TW.1..H RAK-TW.1..H..

Electromechanical TW according to DIN EN 14597

• 2-position thermal reset limit thermostat with single-pole changeover

Use	 a period interminal recent multiplication of the only period change of the intermination of the multiplication in the interminal recent multiplication in the multiplication in the multiplication of the multiplic				
Function	 Typical applications: Heat generation plant (supervision of the boiler temperature; mandatory in open heating systems) For general use in heating, ventilation and air conditioning plant 				
Changeover switch (S.P.D.T.)	When the adjusted switch-off temperature is reached on rising temperature, contact connection 1-2 changes over to contact connection 1-3. When the temperature of the medium falls by the value of the switching differential, the thermal reset limit thermostat (TW) reverts to contact connection 1-2. If the probe has cooled down to a temperature below approx20°C, the control current circuit opens, however, automatically closes again, when the temperature rises.				

Type summary

Product No.	Stock number	Degree of	Temperature	Capillary	Scope of delivery	Pocket
		protection	setting range	tube length		length ¹⁾
RAK-TW.1000HB	S55700-P115	IP65	1595 °C		RAKB and P) / Clamping band for 100 r	100 mm
RAK-TW.1200HP	S55700-P118	IP65	40120 °C	-		100 mm
RAK-TW.1200B-H	S55700-P117	IP43	40120 °C	700 mm	max. pipe dia. 100 mm (for	100 mm
RAK-TW.1000S-H	S55700-P116	IP43	1595 °C	700 mm	RAKB) / Cable	
RAK-TW.1200S-H	S55700-P119	IP43	40120 °C		gland M16x1.5 mm / Mounting instructions	
	1) Pocket ALT-	SB100, brass	s nickel-plated, l	PN10		
Accessories	Refer to Data S	heets N1193	and N1194.			
Ordering	When ordering, (standard set).	When ordering, please give type reference according to "Type summary"				
	If the accessories required are not those included in the standard set, they can be ordered separately according to the type references given in Data Sheets N1193 and N1194.					
Mechanical design						
	 pocket or wall mounting; the electromechanical thermal reset limit thermostat uses a capillary type sensing element. The cover is made of PC and has a viewing window. The cable gland is M16x1.5 mm. The PC plastic is especially designed to be flame resistant, UV protected and flexible against high temperatures and tough against chemical and biological impacts. 					
Notes						
Mounting aid	Installation Inst		-		the thermestat for	
Mounting aid Mounting location	It must be ensu	red that there wing window,	e is sufficient cle for adjusting th	earance above	e the thermostat for s rature and for removi	-
-	It must be ensu through the vie replacing the th	red that there wing window, ermostat, if re and should b	e is sufficient cle for adjusting th equired. e properly tighte	earance above le limit temper ened to ensur	rature and for removing the entire length of	ing and
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2/4

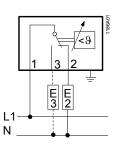
X	The devices are considered electronics devices for disposal in terms of European Directive 2012/19/EU and may not be disposed of as domestic waste.					
	 Dispose of the device via the channels provided for this purpose. Comply with all local and currently applicable laws and regulations. 					
Technical data						
Switching mechanism	Switching capacity Nominal voltage Nominal current I (I _M) contact connection 1-2 contact connection 1-3	AC 24…250 V 0.1…16 (2.5) A 0.1… 6 (2.5) A				
	External fuse	16 A				
	Life expectancy at nominal rating	min. 100'000 switching cycles				
	Safety class	I to EN 60 730				
	Degree of protection:	IP43 and IP65 to EN 60 529				
	Temperature setting range (with tool) RAK-TW.1000HB	1595 °C				
	RAK-TW.1200HP	40120 °C				
	RAK-TW.1200B-H	40120 °C				
	RAK-TW.1000S-H	1595 °C				
	RAK-TW.1200S-H	40120 °C				
	Thermal switching differential	6 K (range dependent)				
Directives and	Product standard	EN 60730-x				
Standards		DIN EN 14597 (TW1197) ¹⁾				
	EU Conformity (CE)	CE1T1206xx ¹⁾				
	Radio interference protection	click rate N \leq 5 to EN 55 014				
Environmental	Operation	class 3K5 to IEC 60 721-3-3				
conditions	Max. temperature on bulb	switch-off temperature + 25 K				
	Ambient temperature at the housing	max. 80 °C (T80)				
	Humidity	< 95 % r.h.				
	Mechanism	class 3M2 to IEC 60 721-3-3				
	Storage and transport	class 2K3 to IEC 60 721-3-2				
	Ambient temperature	-25+70 °C				
	Humidity	< 95 % r.h.				
	Max. temperature socket	125 °C				
	Degree of pollution	2 to EN 60 730				
	Controlled medium	Water, oil, air				
	Influence of the ambient temperature	-0.25 °C/°C				
Calibration	Calibration temperature	3° 08				
	Manufacturing deviation	±3 °C				
	Drift after life expectancy < ±5 %					
	Calibrated for ambient temperature at the switching					
	mechanism and capillary tube	22 °C to DIN EN 14597				
	Time constant in: water	<45 s to DIN EN 14597				
	oil	<60 s to DIN EN 14597				
	air	<120 s to DIN EN 14597				

3/4

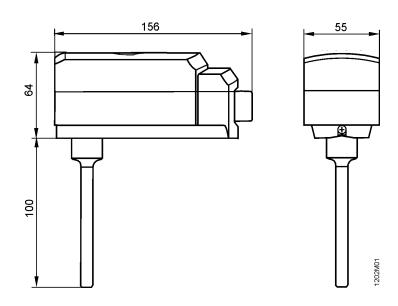
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Connections	Electrical connections	Push In ²⁾ terminals for wires		
		6 x 0.752.5 mm²		
	Earth connection	Push In ²⁾ terminals for wires		
		2 x 0.752.5 mm ²		
	Cable gland	M16 x 1.5 mm		
	External wiring flexible cord	designed to be connected with		
		unprepared conductors or		
		prepared conductors, e.g. ferrules		
General data	Housing colors	base RAL 7001 (dark-grey)		
		cover RAL 7035 (light-grey)		
	Dimensions of sensing element	6.5 mm dia. x 65 mm		
	Capillary length	700 mm		
	Min. bending radius of capillary	R min. = 5 mm		
	Construction			
	Carrier of switching mechanism	plastic		
	Capillary tube and sensing element	copper		
	Diaphragm	stainless steel		
	Weight of standard set: RAKB	0.33 kg		
	RAKS	0.27 kg		
	1) The documents can be downloaded from http://siemens.com/bt/download			

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 Push In is a patented connection technology designed by Weidmüller, Germany's leading manufacturer of electrical connection technologies.

Connection diagram



Dimensions



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Subject to change

4/4