

FLZ 510 | FLZ 520 | FLZ 530 THERMOSTATS

The FLZ series of thermostats consists of three versions. They are available with N.C. / N.O.¹ and changeover contacts. In combination with control cabinet heaters, they serve for temperature control inside the control cabinet. In combination with filterfans, they provide for additional savings on energy, materials and time and, hence, for a better environmental balance. All in all, this results in greater reliability of the production process, reduced energy consumption due to need-based use and an improvement in the efficiency of the controlled heaters and filterfans.



PRODUCT		FLZ 510		FLZ 520	FLZ 530	
ARTICLE NO.	-20 ... +40 °C	17103000003	17105000003	17111000003	17121000003	Unit
ARTICLE NO.	0 ... +60 °C	17103000000	17105000000	17111000000	17121000000	
ARTICLE NO.	+20 ... +80 °C	17103000004	17105000004	17111000004	17121000004	

DATA

Type of contact		changeover with spring contact		N.C. with spring contact	N.O. with spring contact	
Switching temperature difference		1 ²	3	< 7		K
Switching point tolerance		±3		±4		
Max. switching power value in brackets: inductive load at cos φ = 0.6	N.C.	100–250 V AC / 10 (2)		240 V AC / 10 (2)		A
	N.O.	100–250 V AC / 5 (2)		120 V AC / 15 (2)		
	DC	max. 30		max. 30		W
Operating temperature		-40 ... +80		-20 ... +80		°C
Suitable for the operation of		fan and heater		heater	fan	
Probe type		bimetal				
Type of mounting		snap fastening for 35 mm profile bars according to EN 60715				
Type of connection		screw terminal for cable cross-section 0.5 to 2.5 mm ²				
Colour		RAL 7035				
Weight		75		50		g

ACCESSORIES	ARTICLE NUMBER
Hygostat	17207000000
Internal enclosure fan	18110000000

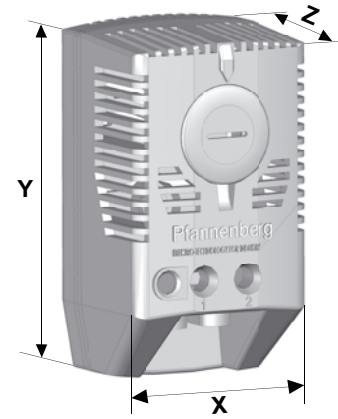
For additional models, options and voltages visit www.pfannenberg.com or contact us directly.

¹ N.C. = normally closed | N.O. = normally open
² for 230 V AC operation only



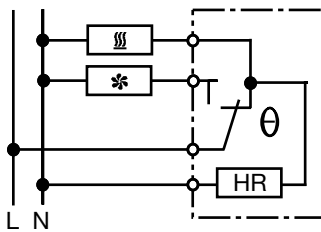
Dimensions

mm	FLZ 510	FLZ 520	FLZ 530
X	37	40	40
Y	59.5	72	72
Z	47.5	36	36

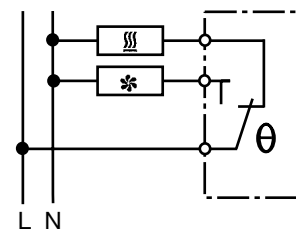


Schematics

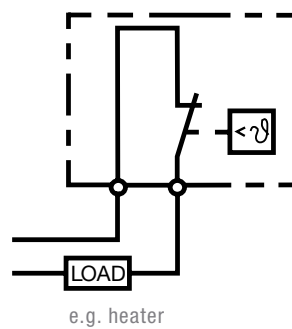
FLZ 510 1K



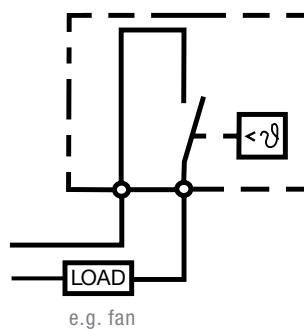
FLZ 510 3K



FLZ 520 N.C.



FLZ 530 N.O.



FLZ 600 | FLZ 610 HYGROSTAT | HYGROSTAT-THERMOSTAT COMBINATION DEVICE

Hygrostats from the FLZ series switch on control cabinet heaters or filterfans when a preset relative humidity is exceeded. The relative humidity is kept above the dew point and the condensation of water on electrical components and the corrosion of unprotected sheet metal is prevented. The electronic combination device unites thermostat and hygrostat in one housing and, at the same time, monitors the relative humidity and the temperature independently of each other.



PRODUCT	FLZ 600	FLZ 610	
ARTICLE NO.	17207000000	17218100000	Unit

DATA

Device implementation	mechanical hygrostat		electronic hygrostat-thermostat combination device
Rated voltage $\pm 10\%$	N/A		AC 50/60 Hz
			230 V
Type of contact	changeover with spring contact		changeover/relay
Switching difference	approx. 5 %		approx. 2 K \pm 1 K / approx. 4 % R.H. \pm 1 %
Contact resistance	-		< 10 m Ω
Max. switching power value in brackets: inductive load at $\cos \varphi = 0.6$	N.C.	24–230 V AC / 5 (0.2) A – min. 100 mA	240 V AC, 8 (3) A or 120 V AC, 8 (3) A 24 V DC, 4 A
	N.O.	24–230 V AC / 5 (0.2) A – min. 100 mA	
	DC	50 V, 1 A 75 V, 0.5 A min. 100 mA	-
Setting range	40–90		% R.H.
Operating temperature	0 ... +60		0 ... +60 °C
System of protection	IP 30		-20 ... +60
Probe type	polyamide belt		IP 20
Suitable for the operation of	fan and heater		-
Operating display	-		LED
Type of mounting	snap fastening for 35 mm profile bars according to EN 60715		
Type of connection	screw terminal for cable cross-section 0.5 to 2.5 mm ²		
Colour	RAL 7035		
Weight	55		85 g

ACCESSORIES	ARTICLE NUMBER
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Hygrostat	17207000000
Internal enclosure fan	18110000000

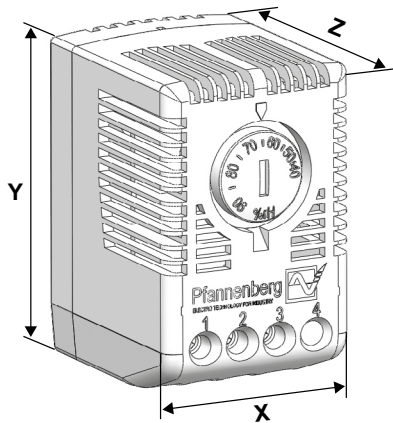
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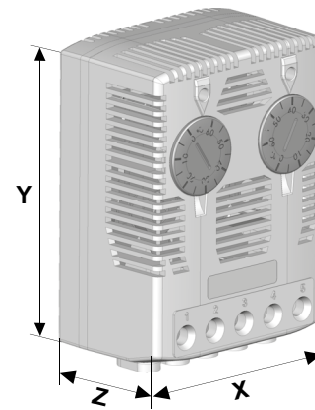
Dimensions

mm	FLZ 600	FLZ 610
X	37	59
Y	60	80.5
Z	47	38

FLZ 600

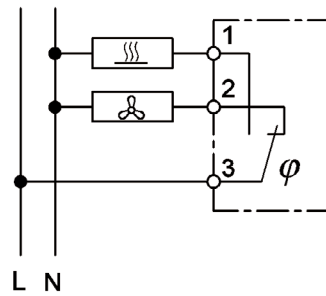


FLZ 610



Schematics

FLZ 600



FLZ 610

