

Clip-on thermostats ATR 83, JAT-1 ..., WR 81

Capillary system



Technical data

Switching capacity:	ATR 83: 16 (2) A, 24–250 V~, min. 150 mA at 24 V~ WR 81: 15 (8) A, 24–250 V~, min. 150 mA at 24 V~ JAT ...: 15 (8) A, 24–250 V~, min. 150 mA at 24 V~
Switching difference:	ATR 83 + WR 81: 4 K JAT ...: 2 ... 20 K, adjustable
Contact:	1 microswitch as potential-free changeover contact
Degree of protection:	ATR 83: IP 20, WR 81: IP 43, JAT ...: IP 65
Protection class:	I
Ambient temperature:	ATR 83 + WR 81: 0 ... 80°C, JAT ...: –20 ... +55°C
Sensor:	ATR 83 + JAT ...: liquid filled sensing element made of Cu WR 81: liquid filled sensing element made of Cu, silicone pads for ideal heat transfer
Fastening:	ATR 83: cable straps, 450 x 8.9 mm (included in the scope of the delivery), removable, heat resistant up to 105°C WR 81 + JAT ...: 200 mm long tightening strap, (included in the scope of the delivery)
Colour:	grey (bottom part RAL 7016, upper part RAL 7035)

Application

Specially suited for the control or supervision of temperatures at coil heating systems, pipelines, containers or reservoirs to enable for example the temperature-dependent driving and control of pumps or the actuation of motor valves.

Type	Item No.	Control range	Max. sensor temperature	Equipment	PG
ATR 83.000	C 1810492	30 ... 90°C	100°C	external setting / TR	B
ATR 83.100	C 1810493	30 ... 90°C	100°C	internal setting / TW	B
ATR 83.001	C 1810494	0 ... 60°C	80°C	external setting / TR	B
ATR 83.101	C 1810495	0 ... 60°C	80°C	Inneneinstellung / TW	B
Accessories: ATRS-1 temperature fixing set (for ATR 83.000 / ATR 83.001), C 1809518					K
Type	Item No.	Control range	Max. sensor temperature	Equipment	PG
WR 81.115-5	C 1810617	0 ... 70°C	85°C	internal setting / TW	B
WR 81.117-5	C 1810613	50 ... 130°C	150°C	internal setting / TW	B
Type	Item No.	Control range	Max. sensor temperature	Equipment	PG
JAT-110 F	JA 030200	–35 ... +30°C	end-scale value + 15 °C	internal setting / TW	B
JAT-120 F	JA 030500	0 ... 60°C	end-scale value + 15 °C	internal setting / TW	B
JAT-130 F	JA 030700	40 ... 100°C	end-scale value + 15 °C	internal setting / TW	B
Option: screwed cable gland M 20 x 1.5 (standard: M 16 x 1.5)					B

TR = Temperature controller, TW = Thermostat