

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

Capillary system

ATR



WR



JAT



## Technical data

<b>Switching capacity:</b>	<b>ATR 83:</b> 16 (2) A, 24–250 V~, min. 150 mA at 24 V~ <b>WR 81:</b> 15 (8) A, 24–250 V~, min. 150 mA at 24 V~ <b>JAT ...:</b> 15 (8) A, 24–250 V~, min. 150 mA at 24 V~
<b>Switching difference:</b>	<b>ATR 83 + WR 81:</b> 4 K <b>JAT ...:</b> 2 ... 20 K, adjustable
<b>Contact:</b>	1 microswitch as potential-free changeover contact
<b>Degree of protection:</b>	<b>ATR 83:</b> IP 20, <b>WR 81:</b> IP 43, <b>JAT ...:</b> IP 65
<b>Protection class:</b>	I
<b>Ambient temperature:</b>	<b>ATR 83 + WR 81:</b> 0 ... 80 °C, <b>JAT ...:</b> -20 ... +55 °C
<b>Sensor:</b>	<b>ATR 83 + JAT ...:</b> liquid filled sensing element made of Cu <b>WR 81:</b> liquid filled sensing element made of Cu, silicone pads for ideal heat transfer
<b>Fastening:</b>	<b>ATR 83:</b> cable straps, 450 x 8.9 mm (included in the scope of the delivery), removable, heat resistant up to 105 °C <b>WR 81 + JAT ...:</b> 200 mm long tightening strap, (included in the scope of the delivery)
<b>Colour:</b>	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
<b>ATR 83.000</b>	C 1810492	30 ... 90 °C	100 °C	external setting/TR	B
<b>ATR 83.100</b>	C 1810493	30 ... 90 °C	100 °C	internal setting/TW	B
<b>ATR 83.001</b>	C 1810494	0 ... 60 °C	80 °C	external setting/TR	B
<b>ATR 83.101</b>	C 1810495	0 ... 60 °C	80 °C	Inneneinstellung/TW	B
<b>Accessories:</b> 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
<b>WR 81.115-5</b>	C 1810617	0 ... 70 °C	85 °C	internal setting/TW	B
<b>WR 81.117-5</b>	C 1810613	50 ... 130 °C	150 °C	internal setting/TW	B

Type	Item No.	Control range	Max. sensor temperature	Equipment	PG
<b>JAT-110 F</b>	JA 030200	-35 ... +30 °C	end-scale value + 15 °C	internal setting/TW	B
<b>JAT-120 F</b>	JA 030500	0 ... 60 °C	end-scale value + 15 °C	internal setting/TW	B
<b>JAT-130 F</b>	JA 030700	40 ... 100 °C	end-scale value + 15 °C	internal setting/TW	B
<b>Option:</b> screwed cable gland M 20 x 1.5 (standard: M 16 x 1.5)					B

TR = Temperature controller, TW = Thermostat