

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

Capillary system



ATR



WR



JAT

Technical data

Switching capacity:	24–250 V~, at 24 V~ min. 150 mA
Switching difference:	ATR 83: 16 (2) A WR 81: 15 (8) A JAT ...: 15 (8) A 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 removable, heat resistant up to 105 °C WR 81: 400 mm long metal tensioning strap with lock JAT: 260 mm long metal tensioning strap
Colour:	Cable straps and tensioning straps are included with delivery 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	II
ATR 83.100	C 1810493	30...90 °C	100 °C	internal setting/TW	II
ATR 83.001	C 1810494	0...60 °C	80 °C	external setting/TR	II
ATR 83.101	C 1810495	0...60 °C	80 °C	internal setting/TW	II

Type	Item No.	Control range	Max. sensor temperature	Equipment	PG
WR 81.115-5	C 1810617	0...70 °C	85 °C	internal setting/TW	II
WR 81.117-5	C 1810613	50...130 °C	150 °C	internal setting/TW	II

Type	Item No.	Control range	Max. sensor temperature	Equipment	PG
JAT-110	JA 030100	-35...+30 °C	full scale + 15 °C	external setting/TR	II
JAT-110 F	JA 030200	-35...+30 °C	full scale + 15 °C	internal setting/TW	II
JAT-120	JA 030400	0...60 °C	full scale + 15 °C	external setting/TR	II
JAT-120 F	JA 030500	0...60 °C	full scale + 15 °C	internal setting/TW	II
JAT-130	JA 030600	40...100 °C	full scale + 15 °C	external setting/TR	II
JAT-130 F	JA 030700	40...100 °C	full scale + 15 °C	internal setting/TW	II
JAT-140	JA 030800	70...130 °C	full scale + 15 °C	external setting/TR	II
JAT-140 F	JA 030900	70...130 °C	full scale + 15 °C	internal setting/TW	II

TR = Temperature controller, TW = Thermostat

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Accessories	Item No.	Equipment	PG
ATRS-1	C 1809518	temperature fixing set for ATR with external setting (ATR 83.000, ATR 83.001)	II
WP-01	C 9990180	Heat conduction paste 2 ml	II

