

## CONTROLLER TYPE ATR243

The ATR243 device is a complete controller destined for panel mounting. It has two relays and a connection for an HL-relay, which can be configured as either alarm or control signals. The integrated display shows the actual value and also the switch point. All functions can be selected in the menu using the keyboard.



### TECHNICAL PARAMETERS

Size:	48 x 48 x 105 mm	
Panel cut-out:	45 x 45 mm	
Voltage supply:	24...230 Vac/Vdc +/-15% 50/60Hz – 3VA	
Power consumption:	5.5VA	
Operating temperature range:	0..45°C	
1 input selectable per menu:	resistance:	PT100, PT500, PT1000, Ni100, PTC1K, NTC10K (Beta 3435K)
	thermocouples:	Typ K, S, R, J automatic reference junction compensation
	standard signals:	0-10V, 0-20 or 4-20mA, 0-40mV, measuring transducer-/current transformer sec. 50mA, 1024 pixels resolution for ATR243-21/-31, potentiometer: 6K, 150K
Relay outputs:	2 relays (Atr243-20...-21...) 3 relays (Atr243-31...)	load 5A-250V~ configurable as switching and/or alarm output
SSR output:	linear 0/4...20mA /SSR/ 0...10V > selectable OUT2 relays of ATR243-20... configurable as switching output or transmission of actual value or setpoint value	configurable: > 0-20mA > 4-20mA, > 0...10 V resolution 4000 pixels
Control algorithms:	ON-OFF with hysteresis P, PI, PID, PD with proportional time	
Accuracy:	0.5% +/- 1 digit for thermocouples and RTD 0.2% +/- 1 digit for V, mA	
Display:	4 digits	
Further data:	- configuration password - memory card for extension configuration, programming	
Protection class:	IP 65 (front) IP 20 (housing)	
Outputs:	<b>ATR243-20-ABC:</b> 2 relays 5A or 1 relay + 1 SSR/V/mA <b>ATR243-21-ABC-T:</b> 2 relays 5A + 1 SSR/V/mA + RS485 +measuring transducer* <b>ATR243-31-ABC:</b> 3 relays 5A + 1 SSR/V/mA + measuring transducer-/current transformer*	* Models with transducer input are additionally equipped with a loop break alarm function.
Serial communication:	RS485 – protocol Modbus RTU slave.	relay Q2 + alarm function not possible with this model, only 121-AT: 24V ac +/- 10% 50/60 Hz only 121-ADT:12..35V dc
Total error:	+/-0.2 % ± 1 digit	