

AT 600

MULTISETPOINT INDICATOR CONTROLLER

Controllers 48x48 mm(1/16 DIN). It is characterised by its high configurability The input can be programmed for temp. sensors, resistance thermometers and thermocouples, but also for pressure transmitters, humidity and flow sensors. The controller's outputs can be selected as command/multiple alarm modes/analogue retransmission. Useful extended range power supply from 24 to 230V AC/DC with galvanic isolation from the network.

Display: 4 digits 0,4 " green + 4 digits 0,3" red

Inputs	Outputs
1 Analog selectable for TC type K, S, R, J, thermoresistance PT100, PT500, PT1000, Ni100, PTC1K. NTC10K, process signals 0..10V, 0/4..20mA, 0..40mV, potentiometer 6K Ω , 150 K Ω , T.A.	1..3 Relays Relay 5 A - 250 VAC resistive charge
Sampling time Programmable up to 4,1 ms (Frequency from 4,12 Hz to 242 Hz)	1 Digital / Analog selection: digital PNP 12 VDC-30 mA / 4..20 mA / 0..10 VDC for command or retransmission PV / SPV
1 Digital PNP, 1/4 setpoint selection, Hold, Run Auto/man regulation, tuning start, pre-programmed cycle start	1 Auxiliary 12 VDC - 30 mAfor external sensor supply
1 current transformer T.A. 50 mA (acquisition time 100 mS, (codes - 21/-31ABC)	Serial communication RS485 Modbus RTU - Slave (code 21ABC-T)



AT60001

2 display
48 x 48

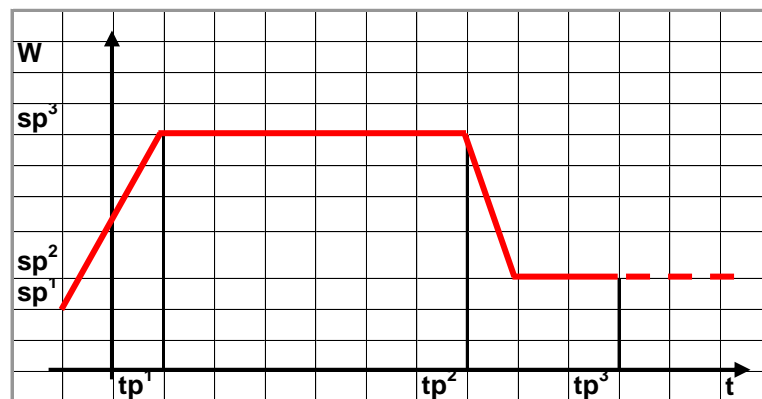
AT 610

Compact Controller with program function

The AT610 series of controllers includes four freely programmable devices in different DIN formats for controlling temperature, pressure and other process variables. The devices are used in heat-generating plants to control the temperature of liquids or gases. The high-contrast, multicolor LC display for process value, setpoint and operator prompting contains two four-digit 7-segment displays, two single-character 16-segment displays, display of the active setpoints, six switch position indicators, and displays for the dimensional unit, ramp function and manual operation. Simple operation through 4 keys. The instruments can be used as 2-state, 3-state, modulating or continuous controllers. The controller software includes a program or ramp function, parameter set changeover, two autotuning (self-optimization) procedures, a math and logic module, as well as 4 limit comparators. A serial interface for RS422/485 or Profibus-DP can be used to integrate the instruments into a data network. The electrical connection is made at the back, via screw terminals. The option boards are universally applicable for all instruments in the series.

Ramp function

Either a rising or a falling ramp function can be used (increase or decrease in the setpoint). The change in setpoint value SP at t_0 is the final value for the ramp. The ramp starts with the setpoint at time t_0 . The slope of the ramp can be programmed; the sign (direction) of the slope is given by the relationship between the setpoint at time t_0 and the SP value. When the supply voltage is switched on, the ramp function starts with the momentary process value.



Option boards:

- Analog input
- 2 logic inputs
- 1 relay 230V/8A (changeover)
- 2 relays 230V/3A (make contact) with common pole
- 1 solid-state relay
- Analog output (voltage/current)
- RS422/485 interface
- PROFIBUS-DP interface



CODES	DESCRIPTION
AT61106	2 display - 48 x 96 / 96 x 48
AT61201	come sopra + RS 485
AT61501	3 display-Rampa-8 spezzate-setpoint remoto-110/240V



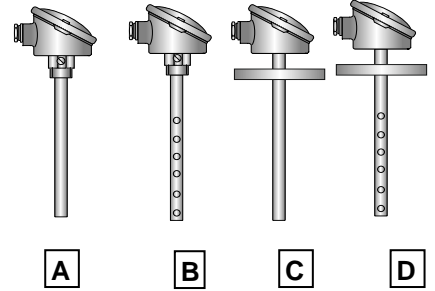


AP 100

PT 100 RESISTANCE THERMOMETERS

Normally the PT100 are simple (3-wire). However, it is recommended to request the double version (6-wire). With a double PT100 we can use: the first for the regulation, the second for the alarm, or as a reserve PT100 in case of failure of the first, or again as a comparison PT100.

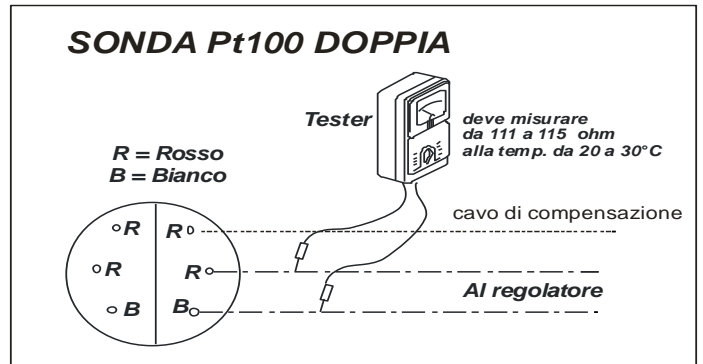
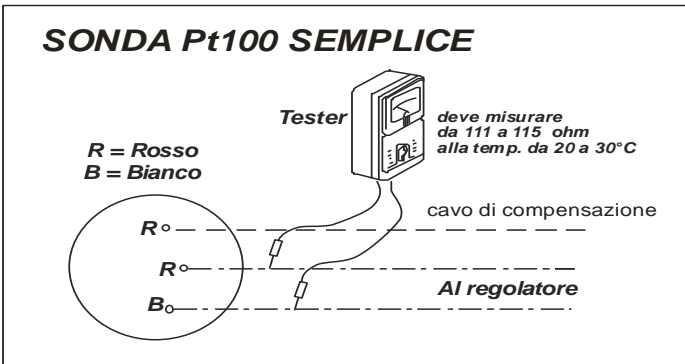
- A) Resistance thermometer Type : Pt 100 std (IEC 751) other on request
- B) Tolerance : IEC 751 class B - other on request
- C) Number of elements : simple - double - triple on request
- D) Type of connection : W 3; W 6 - other on request
- E) Temperature range : -50 + 500 °C - other on request
- F) Hollow conductor material : nichel - other on request
- G) Sheath diameter (mm) : 2 - 3- 4,5 -6 (diam. 2 simple only)
- H) Length "A" (mm) : up to 300mm standard - other on request



DIN head complete with stainless steel wells	Ø STEM	Ø Connection	CODES						
			STANDARD		W/TRANSMITTER		ATEX		
A For Air	6 mm	1/2"	AP10101	AP10201	AP10301	AP10401	AP10501	AP10601	AP10701
B For Air and Gas		1/2"	AP10102	AP10202	AP10302	AP10402	AP10502	AP10602	AP10702
C For Fluids		DN 15	AP10103	AP10203	AP10303	AP10403	AP10503	AP10603	AP10703
D Air channels		DN 15	AP10104	AP10204	AP10304	AP10404	AP10504	AP10604	AP10704



AP2... PT 100 Resistance Thermometers with DIN head and slide joint



AQ 100

THERMOCOUPLES

AQK...	K	Nichel-Chromium	Nichel-Aluminium	0+1100°C	-180+1350°C	BS493/ ANSI/MC96.1 DIN 43/10
AQJ...	J	Iron	Costantan	20+700°C	-180+750°C	BS493/ ANSI/MC96.1
AQE...	E	Nichel-Chromium	Costantan	0+800°C	-	BS493/ ANSI/MC96.1 DIN 43/10
AQR...	R	Platinum-13% Rhodium	Platinum	0+1600°C	-50+1700°C	BS493/ ANSI/MC96.1 DIN 43/10
AQS...	S	Platinum-13% Rhodium	Platinum	0+1550°C	-50+1700°C	BS493/ ANSI/MC96.1 DIN 43/10
AQB...	B	Platinum-30% Rhodium	Platinum-6% Rhodium	+100+1600°C	+50+1750°C	BS493/ ANSI/MC96.1 DIN 43/10



CODES				DIN HEAD WITH S.S. WELL		
STANDARD		ATEX		DESCRIPTION	Ø STEM	CONNECTIONS
SIMPLE	DOUBLE	SIMPLE	DOUBLE			
...10101	...10201	...10501	...10601	For Air	6 mm	THREADED Ø 1/2"
...10102	...10202	...10502	...10602	For Air and Gas		THREADED Ø 1/2"
...10103	...10203	...10503	...10603	For Fluids		FLANGED DN 15
...10104	...10204	...10504	...10604	Air channels		FLANGED DN 15