



## **ATR142** Controller Double SETPOINT

### Ideal Application

Dairy industry  
 Refrigeration  
 Sterilizers  
 Environmental chambers  
 Footwear machinery  
 Cereals driers  
 Metalworking  
 Heating elements control  
 Indicator for inverters  
 Domotics and Building Automation  
 Galvanic treatment  
 Chillers

### Description

Double setpoint controller size 32x74mm. The dual read/green display allows to visualize process and setpoint value at same time. The switching power supply with extended range 24...230Vac/dc does not require any jumpers setting.

Analog input is selectable for thermocouples type J, K, S, R, thermoresistances PT100, PTC 1K, NI100, NTC 10K (refrigeration industry) and PT500/PT1000 (widely used in air-conditioning), 0...10V, 0...20mA, 4...20mA. Potentiometers with full scale up to 6KO and 150KO may also be read, including function "Latch on" for quick calibration and setting of minimum, maximum and zero by frontal keys (see

Application notes).

Two setpoints are available, one for command and one for alarm function, and they can be related to two relay outputs or to SSR output. The main relay of command output is 8A. The alarm relay is 5A (alarm modes: treshold, band, deviation; option manual reset of output by frontal keyboard for Limit controller function).

Open/Close logic for motorised valves also available.

Software features include ON/OFF, PID+Autotuning control and Heating-cooling PID with neutral zone. A single output (1 relay + SSR) version is available with serial communication RS485 and Modbus-RTU / Slave protocol for

application with supervisory systems.  
Sealing IP65 with frontal gasket(optional).  
Optional Memory Card to copy all parameters,  
available also with internal battery therefore not  
requiring to power up the unit.  
Software application LABSOFTVIEW for Windows

enables setting and monitoring of  
parameters on PC.

#### Technical data

SIZE: 32x74(frontal)x58mm  
POWER SUPPLY: 24...230Vac/Vdc  
POWER CONSUMPTION: 2W  
DISPLAY: 4 green digits + 4 red digits, 6 LEDs, decimal point  
OPERATING CONDITIONS: 0...40°C, 35..95rH%  
INPUTS: 1 selectable for TC K , R , J , S  
PT100 , NI100 , PT500, PT1000 , PTC , NTC  
0/4...20mA , 0...10V  
Potentiometers <= 6K $\Omega$  , <= 150K $\Omega$   
OUTPUTS:  
Control relay 8A  
Alarm relay 5A  
SSR command/alarm  
Open/Close logic, time-proportioned  
Serial communication RS485, MODBUS-RTU/Slave (version -T)  
CONTROL : ON/OFF , PID + Autotuning, Heat/Cooling PID  
ACCURACY: 0.5% $\pm$ 1digit for TC/RTD; 0.2% $\pm$ 1digit for mA,V  
SAMPLING TIME: 15ms  
Selectable software filter on input and visualisation  
SEALING: IP54 Frontal (IP65 with gasket), IP30 Box, IP20 Terminal blocks  
CONFIGURATION: parameters protected by password  
MEMORY CARD with/without battery  
Software Labsoftview 2.0 for programming and trend monitoring  
North-American market.

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