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# DR 4000 TEMPERATURE CONTROL AND PROCESSES DIN RAIL MOUNTING



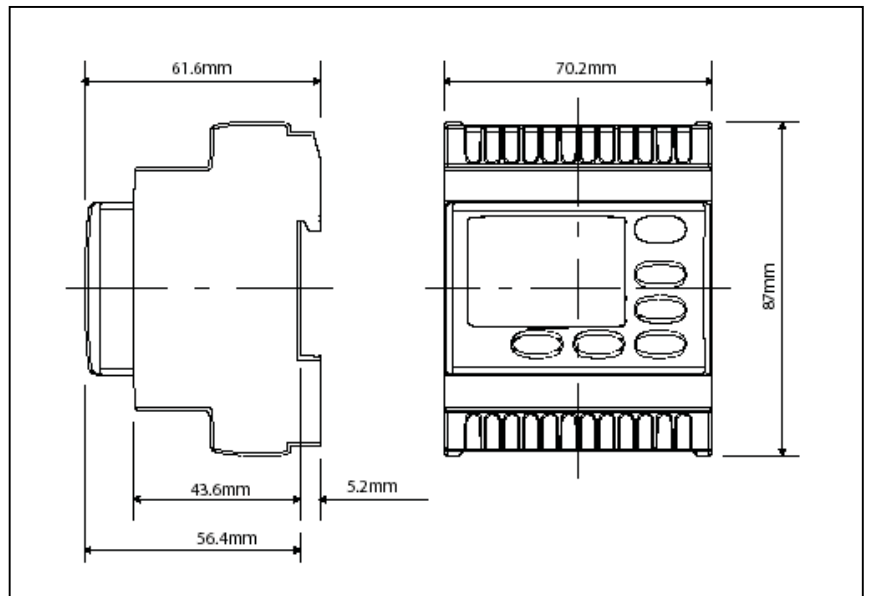
Temperature controller for DIN rail mounting. (4 modules)  
 ON / OFF  
 Dual display, set point and process value.  
 Configurable signal input depending on model.  
 Soft Start upload function controlled.  
 Different models with configurable inputs and outputs. (See table below)

### SUPPLY PROGRAM

MODEL	INPUT	OUTPUT	VOLTAGE
DR 4010 NTC	NTC / PTC	1 Relay + TTL	95...240Vac o 12..24Vac 12..36Vdc
DR 4010 Pt100	Pt100		
DR 4010 TC	TCJ, TCK, TCR, TCS, TCT		
DR 4010 4 ..20	0...20mA, 4...20mA 0...1V, 0...5V, 0...10V		
DR 4020 NTC	NTC / PTC	2 relay + TTL	
DR 4020 Pt100	Pt100		
DR 4020 TC	TCJ, TCK, TCR, TCS, TCT		
DR 4020 4 ..20	0...20mA, 4...20mA 0...1V, 0...5V, 0...10V	2 relay + TTL + 1configurable output 0..20 / 4..20mA 0..1 / 0..5 / 0..10V	
DR 4022 NTC	NTC / PTC		
DR 4022 Pt100	Pt100		
DR 4022 TC	TCJ, TCK, TCR, TCS, TCT		
DR 4022 V / I	0...20mA, 4...20mA 0...1V, 0...5V, 0...10V		

- The new thermo-regulators of Eliwell Controls Universal series are ideal for all industrial applications require temperature control high precision, since the primer plastic materials to packaging, to control in the transformation process of raw materials.
- Front protection: IP65
- Case: plastic body 4 DIN modules
- Dimensions: front 70x85mm, Depth 61mm
- Model 4022 includes an analog output TLV direct connection and a digital input
- Installation: DIN-rail (Omega 3)
- Operating temperature: -5 ... 55 ° C
- Storage temperature: -20 ... 85 ° C
- Humidity use and storage 10 ... 90% RH (non-condensing)
- All models support the key card copy quick programming parameters

### DIMENSIONS



## FEATURES

	DR 4010	DR 4020	DR 4022
Container	PC+ABS plastic resin body PC+ABS UL94 V-0		
Dimensions	70.2 x 87 mm DIN rail mounting or wall. Depth 61.6 mm		
Mounting	DIN rail mounting, wall or panel. (Template 70 x 45 mm)		
Usage temperature	-5 °C...55 °C		
Storage temperature	-20 °C...85 °C		
Ambient humidity in use and in storage	10...90% RH (non-condensing)		
Display	Decimal point selectable by parameter Two 4-digit display + sign		
Analog input	1 input selectable by parameter H00 depending on the model (see the table of probes)		
Range	depending on the probe used (see table probes)		
Accuracy	depending on the probe used (see table probes)		
Resolution	depending on the probe used (see table probes)		
Digital input	1 digital input free of voltage		
Serial output	TTL for Copy Card connection to TelevisSystem and Modbus systems	TTL and RS-485 for connection to Copy Internal Card, TelevisSystem and Modbus systems	
Digital output	1 SPDT 8(3)A 250Vac	1 SPDT 8(3)A 250Vac 1 SPST 8(3)A 250Vac	
Analog output*	unavailable		0...1V, 0...5V ,0...10V 0...20mA, 4...20mA
Consumption	4W max		
Power supply	12...24Vac±10% 50/60Hz /12...36Vdc 95...240Vac ±10% 50/60Hz		

# maximum loads controlled by the analog output

output type	maximum load
0-1 V	20mA with minimum load resistance 50 Ohm
0-5 V	20mA with minimum load resistance 250 Ohm
0-10 V	20mA with minimum load resistance 500 Ohm
0-20mA	350 Ohm
4-20mA	350 Ohm

## PROBES TABLE

Probe	Range	Probe error limits		Resolution	Accuracy
PTC	-55 to 155 °C	-60...155 °C		0,1 °C (0,1 °F)	0,5% end of scale + 1 dígit
NTC	-50 to 110 °C	-55...115 °C		0,1 °C (0,1 °F)	0,5% end of scale + 1 dígit
Pt 1000	-200 to 800 °C	-210...810 °C		0,2 °C	0,5% end of scale + 1 dígit
TCJ	-40 to 760 °C	-50...770 °C		0,6 °C (0,6 °F)	0,5% end of scale + 1 dígit
TCK	-40 to 1350 °C	-50...1360 °C		0,6 °C (0,6 °F)	0,5% end of scale + 1 dígit (over entire scale) 0,3% end of scale + 1 dígit (-40 a 800 °C)
TCS	0 to 1600 °C	-10...1610 °C		0,6 °C (0,6 °F)	
TCR	0 to 1600 °C	-10...1610 °C		0,6 °C (0,6 °F)	
TCT	-40 to 350 °C	-50...360 °C		0,6 °C (0,6 °F)	
Pt 100	-200 to 800 °C	-210...810 °C		0,1 °C (0,1 °F)	0,5% end of scale + 1 dígit (over entire scale) 0,2% end of scale + 1 dígit (-150...300 °C)
V - I	-1999 to 9999	0...1V 0...5V 0...10V 0...20mA 4...20mA	-1...10% -0.20...10% -0,10...3% 0,05...5% -6,25...6,25%	1 dígit if ndt=0 0,1 dígit if ndt=1 0,01 dígit if ndt=2 0,001 dígit if ndt=3	0,5% end of scale + 1 dígit