CHROMALOX ISOPAD

ICon-TD7100

DIGITAL TEMPERATURE CONTROLLER

HENNLICH

The temperature controller series offers a wide range of features, intuitive functions, and an extremely long service life. The FAT (fast adaptive tuning) algorithm continually adjusts to the control loop thus ensuring precise control. The setting of PID parameters and the execution of an autotuning procedure are not required. All functions can be quickly accessed and changed in the plain-text menu. The integrated hybrid relay system ensures a long service life with low losses in the controller. The additionally installed cut-off relay minimizes the risk of damage should the hybrid relay fail. The self-optimizing FAT control algorithm makes sure that the target temperature is reached quickly while avoiding overshoots. The two in-dependent universal sensor inputs allow easy connection of a variety of common resistance temperature sensors as well as thermocouples. The limiter module provides additional protection and flexibility in the control strategy. The electronics are protected against over-current and overheating. The multi-color LED provides highly visible, simple signaling of the various operating modes.

ICON-TD7100

TECHNICAL DATA

Nominal Supply Voltage	AC 90 to 260 V [IEC] | AC 100 to 240 V [UL]
Nominal Current	max. 10 A via internal fuse
	max. 16 A via external fuse
Switching Capacity	max. 2600 VA internal
	max. 3840 VA external
Power Switch	Hybrid Relay > 5.0 Mio cycles
Thermal Protection	+85°C (+185°F), manual reset
Sensor Input	2x independent selectable sensor types
Temperature Range	RTD (Pt100) -99°C to +850°C (-146°F to +1562°F)
	RTD (Pt1000) -99°C to +850°C (-146°F to +1562°F)
	NI120 -50°C to +250°C (-58°F to +482°F)
	NTC10K -20°C to +250°C (-4°F to +482°F)
	NTC100K 0°C to +250°C (+32°F to +482°F)
	Type K -200°C to +1350°C (-328°F to +2462°F)

TECHNICAL DATA (continued)

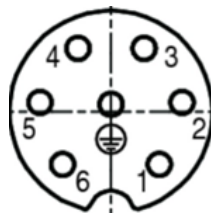|		
Temperature Range	Type J	-200°C to +1200°C (-328°F to +2192°F)
	Type E	-200°C to +1000°C (-328°F to +1832°F)
	Type N	-200°C to +1300°C (-328°F to +2372°F)
Controller Type	FAT (Fast-Adaptive-Tuning)	
Setpoint Accuracy	±3K Standard or configurable ±0.5K to ±20K	
	(Green LED indication)	
Optional	Limiter Function, Delta T, switched-off.	
Functions	Gradient, Sequential Control, Heater Check, Password	
	protection, Heating or Cooling function, Timeout,	
Controller Display	LCD Graphic	
	3 colored LED for indicating operating state.	
	Celsius or Fahrenheit Display	
Controller Operation	set temperature point via front display menu options.	
	optional configuration via handheld unit (sold separately)	
Signal Output	potential-free, dual action contact max. 2A, 250 V / 220 DC	
	> 2.5 Mio load free cycles	
Output Functions	Range reached, Error, Limiter active, Heater active, Alarm.	
Ambient Operating Range	-20°C to +50°C (-4°F to +122°F)	
Relative Humidity	< 90%, non-condensing	
Ingress Protection Rating	IP65 according to IEC 60529 (lid closed, connectors locked)	
Electrical Protection	Class I according to IEC 61140	
Shutdown Relay	Cuts off heating circuit on failure.	
Languages	English, Spanish, French, German	
Unit Weight	0.5 kg (1.1 lbs.) with cable glands	
	0.7 kg (1.5 lbs.) with connector sockets	
Housing Dimensions	151 x 125 x 90 mm (5.95 x 4.92 x 3.54 in)	
Housing Material	Polycarbonate with clear lid UL94-V0	
	Lid closed/opened via hinges; no tools required.	

OPTIONAL ANALOG MODULE

Analog Output	0 … 10 V (1 kOhm) or 4 … 20 mA (510 Ohm)
Analog Input	0 … 10 V (2.6 kOhm) or 4 … 20 mA (120 Ohm)
Logic Output	15 VDC, 20 mA, SSR
Logic Input	3.3 VDC, < 0.1 mA, potential-free switch
Acoustic Signal	Buzzer

CONFIGURATIONS

ICON-TD7130 with 6-pole connector socket

Brown	Phase L	PIN 1
Blue	Neutral N	PIN 2
Red	Sensor B +	PIN 3
White	Sensor B –	PIN 4
Red	Sensor A +	PIN 5
White	Sensor A –	PIN 6
Green-yellow	Ground	PE

custom sockets and arrangements on request

ORDER INFORMATION

Part Number	Series	Description
1235-05378075	ICon-TD7100	Basic Model with Cable Glands 2x M16, 2x M12
		No supply cable provided.

Other types and configurations on request

CHROMALOX ISOPAD

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