CHROMALOX ISOPAD

ICon-TD6100

DIGITAL TEMPERATURE CONTROLLER

The controller is a compact, feature rich, intuitive FAT Temperature Controller for wall-mounting. FAT stands for Fast-Adaptive-Tuning. A novel algorithm permanently adjusts the control parameters to the control process. The common adjustment of PID controllers or the execution of an auto tuning procedure is obsolete. The self-optimizing controller logic leads to an efficient adaptation to any closed-loop controlled pass and quickly reaching adjustment between set-point temperature and actual (temperature) value. All functions are easily accessible via the text menu display and can be easily reached and set via the buttons on the control panel. The unit is equipped with wear-free electronic for prolonged lifetime. A multi-colored LED is signaling the different operating modes, easily view-able in the distance. The electronics are protected against overcurrent and high thermal load.
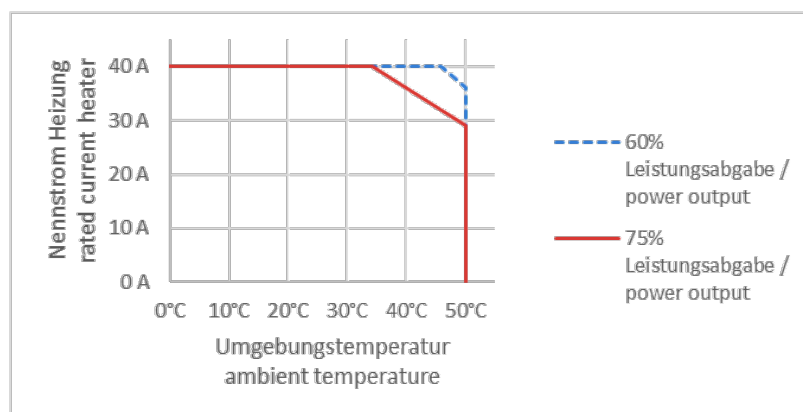

ICON-TD6100

TECHNICAL DATA

Nominal Supply Voltage	AC 90 to 260 V
Nominal Current	max. 10 A via internal fuse
	max. 40 A via external fuse
Switching Capacity	max. 2600 VA internal
	max. 10400 VA external
Power Switch	Hybrid Relay > 2.5 Mio cycles
Thermal Protection	+85°C (+185°F), manual reset
Sensor Input	Selectable sensor type.
Temperature Range	RTD (Pt100) -99°C to +850°C (-146°F to +1562°F)
	(2-wire, 3-wire, or 4-wire)
	RTD (Pt1000) -99°C to +850°C (-146°F to +1562°F)
	(2-wire, 3-wire, or 4-wire)
	NI120 -50°C to +250°C (-58°F to +482°F)

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Temperature Range	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)
	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)

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Controller Type	FAT (Fast-Adaptive-Tuning)
Setpoint Accuracy	±3K
Power Switch	TRIAC
Controller Display	LCD Graphic
	3 colored LED for indicating operating state.
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. 50 mA, 45 V
	If temperature is within range (Green LED indication)
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, Japanese
Unit Weight	1.5 kg (3.3 lbs.) with cable glands
	1.8 kg (4.0 lbs.) with connector sockets
Housing Dimensions	151 x 175 x 90 mm (5.95 x 6.89 x 3.54 in)
Housing Material	Polycarbonate with clear lid UL94-V0
	Lid closed/opened via hinges; no tools required.

Current Rating/Power Output

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CONFIGURATIONS

ICON-TD6130 with 6-pole connector socket
Max. 10 A

(2-wire, 3-wire, 4-wire RTD)

Brown	Phase L	PIN 1
Blue	Neutral N	PIN 2
White	Sensor RTD 4	PIN 3
Red	Sensor RTD 3	PIN 4
Red	Sensor RTD 2	PIN 5
White	Sensor RTD 1	PIN 6
Green-yellow	Ground	PE
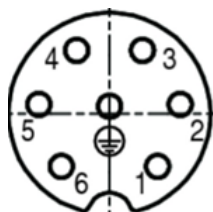
ICON-TD6150 with 4-pole connector socket
Max. 20 A

Brown	Phase L	PIN 1
Blue	Neutral N	PIN 2
Red	Sensor RTD, TC +	PIN 3
White	Sensor RTD, TC –	PIN 4
Green-yellow	Ground	PE
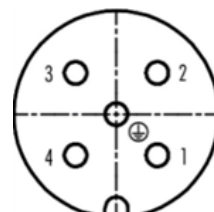
ICON-TD6190 with 7-pole connector socket
Max. 40 A

Brown	Phase L	PIN 1
Blue	Neutral N	PIN 4
White	Sensor RTD, TC +	PIN 11
Red	Sensor RTD, TC -	PIN 12
Green-yellow	Ground	PE
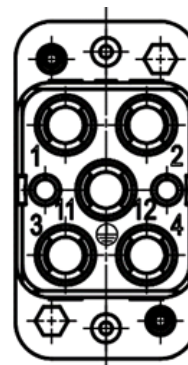
ORDER INFORMATION

Part Number	Series	Description
1235-05378074	ICon-TD6100	Basic Model with Cable Glands 2x M25, 2x M12
		No supply cable provided.

Other types and configurations on request

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