



Datasheet: TC32 Industrial

TC32 Industrial is an industry-leading smart heat trace controller.

EQON's TC32 Industrial is designed for the most demanding offshore and industrial settings, where performance and precision are paramount. The TC32 Industrial safely and securely delivers superior cost and fuel savings and unparalleled insight of heat trace systems.

Specification:

El-number:	4500257
Housing:	Aluminum (anodized/Cataphorized)
Dimensions:	L 185mm x W 126mm x H 36mm
Weight:	0,8 kg
Ingress Protection:	IP20
Power Supply Voltage – Main:	110/230 VAC +/- 10%; 50/60Hz, TN/IT
Power Supply Voltage – Controller Unit:	24 VDC
Maximum Power Output – Main:	32A / 230 VAC
Power Output Control Range:	0 – 100%
Temperature Output Accuracy:	0,2 °C
Power Supply Terminals – Main:	Max 10 mm ²
Power Supply Terminals – Controller Unit:	2 x 1,5mm ²
Power Output Terminals:	Max 10mm ²
Power Consumption – Controller Unit:	< 3W
Sensor Input:	2 x PT 100, 4 wires
Sensor Input Terminals:	4 x 1,5mm ² , 2 channels
Sensor Input Temperature Range:	-40 °C to +300 °C
Operating Temperature:	-10 °C to +50 °C
Storage Temperature:	-20 °C to +50 °C

Installation:

Method:	DIN rail, 35mm
Application:	Resistive heat loads
Configuration:	EQON interface

Communication:

Type:	Ethernet
Protocols:	TCP/IP, Modbus-TCP
Connector:	RJ45
Bitrate:	Up to 1 Gbit/s

SOM:

CPU:	Dual core 1 GHz
RAM:	1024 MB
eMMC:	16 GB
Heat resistance:	Industrial Rated

HMI:

Software:	EQON OS
	Wide range of integrations

Compliance:

Certification:	CE (TÜV Süd)	
Standards:	EMC	IEC61000-6 (CE)
	IP	IEC60529
	Electrical Safety	IEC61010-1 (CE)
	Vibration	IEC60068-2-6
	ROHS	IEC63000

Doc.No.: ETD3203

Revision: 03 – 18.03.2026
Subject to change without prior notice