



IoT Refrigeration Temperature Controller

N150-4R-IoT



Energy Saving

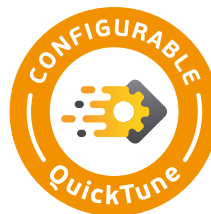


Connection to the cloud



**LTE communication
with fallback**

**High contrast
display**



The **N150 IoT** is an AlwaysOn controller, a pioneer in its category, developed for the management and control of refrigeration assets in a wide variety of environments.

Its reliable control algorithm, input and output capabilities, combined with continuous connectivity to **Sensify's** CoolerCloud platform and the power of AI-driven processing, enable highly efficient control, real-time alert generation, and remote monitoring and management of coolers.

This controller is ideal for obtaining usage and performance metrics of coolers, reporting theft or loss through geolocation, and configuring devices remotely to prevent or streamline technical service operations.



Ease of Installation

Quick connection without the need for screws



Batch Setup

Fast commissioning via USB with QuickTune software



Simplified Diagnostics

Custom error LEDs



Anti-flame Protection

Housing UL94V-2 according to IEC 60730-1 and IEC 60730-2-9



Security Lock

Prevents unauthorized access to the SIM Card

Technical Specifications

Specifications	
Dimensions	48 x 96 x 92 mm (1/8 DIN)
Panel Cutout	45 x 93 mm
Approximate Weight	230g
Power	
Voltage	100 to 240 Vac ± 1 0%, 50/60 Hz
Consumption	10 VA
Voltage Supervisor	
Measurement Range	90 to 250 Vac
Environmental Conditions	
Operating Temperature	-10 to 50 °C
Relative Humidity	Max. 80% at 30°C
Sensor	NTC thermistor, 10 k Ω @ 25 °C
Measuring Range	-40 to 90 °C
Measurement Accuracy	0,6 °C
Door Sensor	Dry Contact or Open Collector NPN

Outputs	
OUT1	SPDT relay, 1HP 250 Vac - with Zero Crossing
OUT2	SPST-NO relay, 3A 250 Vac - with Zero Crossing via software
OUT3 and OUT4	Triac, 0,5 A 250 Vac - with Zero Crossing
Voltage Supervisor	
Measuring Range	150 to 250 Vac

Front Panel	IP65, PC UL94 V-2
Housing	IP20, PA6 + 30 % FV, V-0
Wifi Connection	ESP32 module, 802.11 b/g/n protocol (internal antenna)
Mobile Data Connection	GSM, LTE Cat M1 and LTE Cat NB1/2 (internal antenna)
USB Interface	2.0, Modbus RTU protocol
Start of Operation	4 seconds after turning on the equipment
Connectors	Faston and KK
Certifications	IEC 60730-1 and IEC60730-2-9