

NIS
ELEKTRONIK

COOLER PULSE COOLER CONTROLLER SOLUTION



Product Catalogue

MARCH

2024

INTRODUCTION

**Since 2020,
NIS Elektronik has been dedicated
to researching and developing
cooler-integrated tracking
solutions.**

Our mission is to **create
innovative solutions** that
transform ordinary coolers
into intelligent devices,
providing valuable data
insights to companies.



SOLUTIONS TO PROBLEMS

Unlimited Monitoring & Tracking Capabilities

A cooler is more than just a cooling device;
it embodies your brand,
serves as your point of purchase, and
it should deliver you valuable data.



**Built to deliver
you data!**

SOLUTIONS TO PROBLEMS

High Energy Efficiency

A cooler is more than just a cooling device; it consumes energy and leaves carbon foot print behind.

Your cooler should also track and lower your carbon print.



Built to lower your carbon foot print.

SOLUTIONS TO PROBLEMS

Unlimited Customization Options

Companies leveraging AI stand to gain significant advantages.

Is your cooler equipped for this technological shift?



Built to plug
your coolers
to AI.

SOLUTIONS TO PROBLEMS

Unlimited Customization Options

A cooler is more than just a cooling device;

Your cooler should talk to you if something wrong!

I am going to be out of service soon. Send me a technician!

I compared my self with others, and I am obviously not being used for the purpose. Need someone to check me!



**Built to
make your
cooler talk!**

FEATURES-OFFLINE

All features of standart controllers



On/Off

can be switched
ON/OFF



Flat Keypad

allows
easy cleaning



High efficiency display

to ensure
greater visibility



Front panel IP65

resistant to humidity and
aggressive environments



Front mounting & customisation

faster &
more practical

FEATURES-ONLINE

Reporting

NEW



Location



Temperature



Motion



Door count



Energy



Sales people visit activity

FEATURES-ONLINE

Monitoring

NEW



Online connectivity via cellular networks



Online remote management

Time-based operation for energy efficiency, reducing carbon footprints

Predictions

NEW



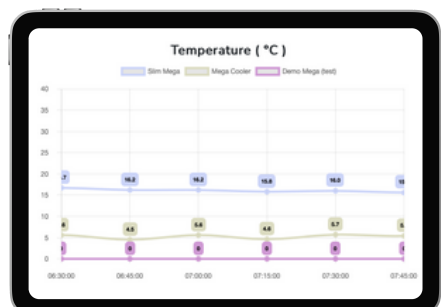
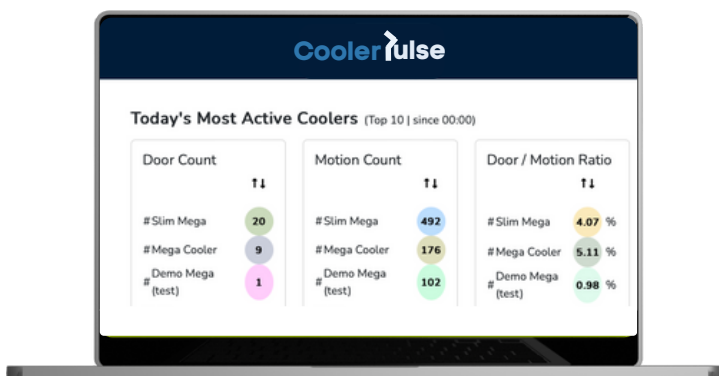
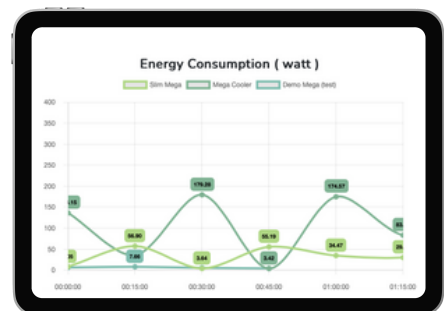
Proactive maintenance alerts for energy/temperature parameters



AI-driven comparisons for coolers based on:

- Customer demography
- Location

Cooler Pulse's key feature that sets it apart from other standard models is its ability to quickly and effectively analyze cabinet data, providing users with a user-friendly interface for reporting!



TECHNICAL DETAILS

Cooler Controller



Pin descriptions

Pin Name	Description
LIGHT	AC relay output for cooler lightning circuit.
FAN	AC relay output for cooler fan.
LIVE	AC input of compressor, fan and light relays.
COMP	AC relay output for cooler compressor.
N	AC neutral input of controller.
NTC	Temperature probe input.
GND	Ground reference for temperature probe and door switch.
DROE	Door switch input.

Electrical characteristics

	Min.	Typ.	Max.
System input voltage	90VAC	230VAC	265VAC
System input power	-	-	5W
Backup battery capacity	-	-	900mAh
RTC battery capacity	-	-	150mAh
GSM Tx power	-	-	23dBm
Wi-Fi Tx power	-	-	21dBm
Bluetooth LE Tx power	-	-	20dBm

OTHER TECHNICAL DETAILS

Cooler Controller



Connectivity

Technology	Description
Wi-Fi	2.4 GHz 802.11 (b/g/n)
Bluetooth	Bluetooth Low Energy 5.0
Cellular	2G Quad-band GSM (800/900/1800/1900 MHz)

Power terminal ratings

Output terminal	Compressor	Fan	Light
Max. current	10A	5A	5A
Max. voltage	250VAC	250VAC	250VAC
Max. power	300W (2500VA)	150W (1250VA)	150W (1250VA)

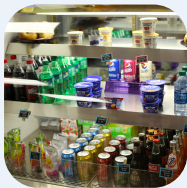
Input terminal	Live	<p>Total current of compressor, fan and light outputs should not exceed 10A.</p>
Max. current	10A	
Max. voltage	250VAC	



MARKET ANALYSIS

We primarily target businesses in food storage, emphasizing precise temperature control for **optimal product quality** and **operational efficiency**.

Beverage Industry



Cold Storage Facilities



Food Distribution Companies



Dairy Industry



Cold Chain Logistics



Revolutionizing temperature control, our cooler controller empowers businesses for enhanced quality, operational efficiency, and adaptability in a modern, sustainable marketplace.



CONTACT

NIS ELEKTRONİK

 +90 216 594 7776

 info@niselektronik.com

 www.niselektronik.com

Work with us
to make a
difference!

www.niselektronik.com

11/11