

Certifications

Our electronic indicators are CE and UKCA certified, RoHS and REACH compliant.

Individual calibration certificates are available.



Intended Applications

- Pharmaceutical distribution
- Cold-chain logistics
- Chilled food delivery
- Direct-to-consumer
- Clinical trials
- Industrial Chemicals

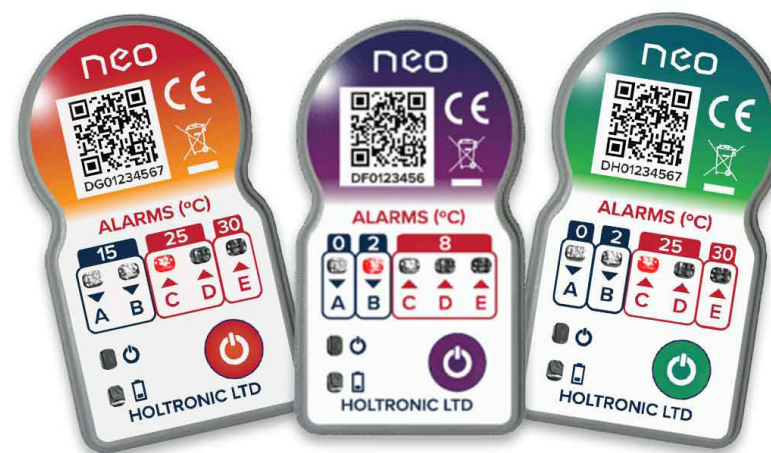
Traceability & Compliance

- Each unit assigned a unique serial number
- Designed for compliance-driven environments (e.g., cold chain monitoring)
- Calibration certificates available to download from scanning QR code on each Penta indicator



Electronic Temperature Indicator

neo® Penta



Compact & Lightweight

Device fits easily into packaging

Highly Accurate

Monitoring with $\pm 0.5^{\circ}\text{C}$ precision

Clear LED Alerts

show when temperature abuse occurs

Custom Options

Customisable to your exact requirements

Holtronic neo® Penta is a temperature monitoring indicator with clear visual LED alarms and audit-ready traceability.

Holtronic neo® Penta

The Holtronic neo® Penta is a **single-use electronic temperature indicator** designed to monitor and alert users to temperature breaches of up to 5 set thresholds.

It provides clear visual LED-based status reporting.

Each device is **individually serialized for traceability** and is fully tested prior to distribution.

Holtronic temperature indicators

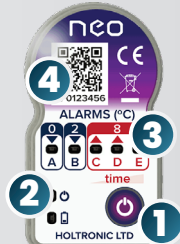
- $\pm 0.5^{\circ}\text{C}$ accuracy — NIST traceable calibration
- 32-second sampling interval throughout the journey
- Simultaneous evaluation of all five threshold conditions
- Duration-based alarms eliminate false positive triggers

Specifications

Shelf Life Active Life	2 years 9 months	Battery	CR2032 lithium button cell
Environmental	IP54	Size	24.6mm x 44.5mm x 5.8mm, 6g
Operating Temperature	-20 to 60°C		

Quick start neo® Penta

- 1 To activate, press and hold the button for 2 seconds / until the green 'Power on' LED flashes 3 times.
- 2 Once the indicator has been activated the 'Power' LED will flash every 8 seconds.
- 3 After start delay (if any) the 'Power' LED will flash 3 times to indicate the end of the start delay.



1 Power Button 2 Power & Use LEDs 3 Breach LEDs 4 Calibration Certificate QR code

How to read neo® Penta

Holtronic neo® Penta gives visual alarms when temperatures have moved outside their monitoring ranges.

neo® Shows	What Occurred
Power LED	On & Monitoring
Red A LED	Temperatures fall below 0°C for 10 Minutes
Red B LED	Temperatures fall below 2°C for 30 Minutes
Red C LED	Temperatures rise above 8°C for 5 Minutes
Red D LED	Temperatures rise above 8°C for 30 Minutes
Red E LED	Temperatures rise above 8°C for 60 Minutes

neo® Shows	What Occurred
Power LED	On & Monitoring
Red A LED	Temperatures fall below 15°C for 30 Minutes
Red B LED	Temperatures fall below 15°C for 60 Minutes
Red C LED	Temperatures rise above 25°C for 30 Minutes
Red D LED	Temperatures rise above 25°C for 60 Minutes
Red E LED	Temperatures rise above 30°C for 30 Minutes

neo® Shows	What Occurred
Power LED	On & Monitoring
Red A LED	Temperatures fall below 0°C for 10 Minutes
Red B LED	Temperatures fall below 2°C for 30 Minutes
Red C LED	Temperatures rise above 25°C for 30 Minutes
Red D LED	Temperatures rise above 25°C for 60 Minutes
Red E LED	Temperatures rise above 30°C for 30 Minutes

Custom variants can be specified to address specific challenges in temperature and time monitoring. neo® Multi technology can be integrated into product packaging and custom branded.