

N5000 Series HACCP Auditor

Data Management and Monitoring



Tomorrow's Solution Today

The Comark HACCP Auditor is a completely new and unique concept in hand held instrumentation for logging, monitoring and managing data.

Specifically designed for use in HACCP, due diligence and health and safety systems, the instrument can be fully programmed, using the Auditor software, to suit the application, thus providing the flexibility and recording functions of palm held organisers.

Not only can vital data be collected on temperature or any event defined by the programmer, stored in the large memory and downloaded to a PC, whenever required, but the highly advanced Auditor software, with almost limitless programming capability, also enables the management and control of processes. This is achieved through the logging of location/product/suppliers and other parameters, together with programmed corrective actions for out of limit temperatures and events. The free form flowchart programming enables the user interface to be customised to match the abilities of whoever operates the instrument and does not require specialist IT skills. In selected tasks, timed and dated reminders for actions can also be automatically displayed.

The facility to define the required tasks from the software, from data collection to follow up actions, with a complete log available on a PC or for printing out, makes the instrument ideal for use in HACCP, due diligence and other quality procedures.

HACCP Auditor benefits include:

- Provision of effective due diligence records
- Effective and efficient data capture relating to all aspects of HACCP and Health and Safety, not just temperature
- Easy and efficient data analysis with reduced costs of processing
- Faster responses to identified problems
- Minimisation of human error
- Elimination of paper records
- Easy programming with no need for IT specialists
- Two year warranty

The HACCP Auditor can be used in every aspect of manufacture and processing, especially in the food and pharmaceutical industries. Almost any type of task or check can be programmed into the instrument, such as checks and actions on damage, quantity, reference numbers and sell by dates for incoming deliveries or the inspection of sub-assemblies and finished goods on production lines and in processing.

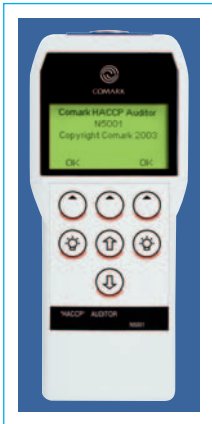
A typical example of recording and corrective actions would be the measurement of cooking temperatures. The required temperature for thoroughly cooked food would be programmed into the Auditor and temperature checks would produce the automatic display of instruction messages. These could include messages advising the user to stop cooking when the measured temperature reaches that required by the programming, or to continue cooking until the optimum temperature is reached.

Comark is the leading manufacturer and supplier of a wide range of electronic measurement instruments for temperature, humidity, pressure and pH.

Click on www.comarkltd.com for more information

N5001 HACCP Auditor

Data Management and Monitoring



The N5001 instrument has a large, full graphic display that can be easily accessed from the 5-button keypad. The keypad is simple to use with 3 "hot" buttons whose functions are shown on the display. Users can scroll through option lists via the "up" and "down" arrow buttons and the keypad can be set for right or left hand use each time the instrument is used - ideal for multi-user applications.

The instrument has an 8-pin Lumberg socket for secure temperature probe attachment or for connection to a PC for programming or downloading data.

Instrument facilities include:

- Temperature measurement ranges from -200°C to $+700^{\circ}\text{C}/-328^{\circ}\text{F}$ to $+1292^{\circ}\text{F}$, type K thermocouple -200°C to $+400^{\circ}\text{C}/-328^{\circ}\text{F}$ to $+752^{\circ}\text{F}$, type T thermocouple
- Memory, approximately 3000 readings
- Full security with authorised users and pin numbers built into programming
- Robust case made from food safe ABS and dust and waterproof to IP67 standards
- Exclusive range of type K and T thermocouple temperature probes
- Large, clear, backlit graphic display
- Low running costs with over 500 hours use from one set of batteries

AUDITOR SOFTWARE

The software enables full programming, data retrieval, viewing of data on screen, archiving of data and later retrieval from memory. Data is stored in a secure database of readings and can be filtered, sorted and printed. Databases can be exported to stand alone spreadsheet or database packages in full or solely consisting of the exceptions – any reading outside the set limits for the event or measurement parameter. The software is supplied with a PC communications lead for use with the instrument.

Facilities include:

- Entry and storage of temperature and non-temperature variables, e.g. number of units, yes/no responses or dates
- Automatic corrective actions if pre-defined criteria are not met
- Temperature profiling – ideal for cooling of hot foods and hot and cold food holding
- Fast data download
- Clear tabular data with optional exception reporting, sorting and filtering
- Data export capability
- Unique instrument simulation for validating the customer's programmed tasks and actions

TECHNICAL SPECIFICATIONS

Temperature Measurement	
Sensors	Type K or T thermocouple
Connector	Lumberg 8-pin
Measurement Range	Type K -200°C to $+700^{\circ}\text{C}/-328^{\circ}\text{F}$ to $+1292^{\circ}\text{F}$ Type T -200°C to $+400^{\circ}\text{C}/-328^{\circ}\text{F}$ to $+752^{\circ}\text{F}$
Display Resolution	0.1°
Instrument Accuracy	$\pm 0.2\%$ of reading, $\pm 0.2^{\circ}\text{C}/\pm 0.4^{\circ}\text{F}$ full ambient range

General	
Display	Full graphic display LCD, 128 x 64 pixels
Operating Range	-20°C to $+50^{\circ}\text{C}/-4^{\circ}\text{F}$ to $+122^{\circ}\text{F}$
Memory	Approximately 3000 readings
Upload time	Typically 2 minutes 30 seconds for a 100K file
Software	Requires Windows™ 2000 or XP
Environmental Protection	IP67, BS 60529, IEC 529
Case Material	Food safe ABS
Communications	RS232 via Lumberg 8-pin connector
Battery Type	2 x 1.5V AA IEC LR6 alkaline
Battery Life	Minimum of 500 hours (backlight not used)
Weight	270g
Dimensions	L 183mm x W 68/79mm x D 31mm

Accessories	
CRS/4 protective rubber boot, N5000S1 Auditor Software with communications lead.	
Unique range of temperature probes	
PT24L8	Type T penetration probe with shaft, length 100mm, diameter 3.3mm, and coiled lead
PK24L8	Type K penetration probe with shaft, length 100mm, diameter 3.3mm, and coiled lead
PT23L8	Type T penetration probe with shaft, length 100mm, diameter 1.6mm, and coiled lead
AT22L8	Type T air probe with 1m heavy-duty FEP lead
ST23L8	Between Pack Foil Probe with 1m Heavy Duty FEP lead
PK19L8	Type K penetration probe with stepped shaft, length 100mm, diameter 2.5mm/1.6mm, and coiled lead
SK22L8	Type K surface probe with 45° crank and coiled lead
SK40L8	Griddle Probe

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