xylem

HACCP never was as easy

COMPLYING TO THE HYGIENE REQUIREMENTS WITH THE ebro® HACCP SYSTEM

- Define and control HACCP tasks
- Document temperature
- Reduce effort and cost

-ebro-

a **xylem** brand

ebro® HACCP system

One system for all

The **ebro® HACCP system** comprises **several components** which can be chosen in order to cover the various tasks and requirements when controlling food. Two different **thermometers** can act jointly with two different pieces of **software** as well as several accessories in order to always have the **perfect solution** – from simple, efficient **collection of measurement data** to **definition and control of HACCP tasks across locations** – according to requirements.

Measuring temperature

The **thermometers** are based on a successful concept to **control the temperature in stock, cooling rooms, refrigerators and during incoming goods inspections**. They can measure both **surface and core temperature**, can be read **in dark environments** due to the display backlight and are light and handy. What´s new is the option to **store measurement data** in the device and to forward it **to a software** via Bluetooth.

Lower cost

The **thermometers** save the data **digitally** in its memory. Therefore it´s not necessary any longer to carry along pen, paper and clipboard additionally. Thus, temperature control is much faster and more efficient. This **saves time** and therefore **money**. Also, the devices have a rechargeable battery, **sparing frequent battery changes.**

Optimize processes

The **ebro® HACCP system** offers numerous simplifications compared to conventional temperature control. Both measuring and storing the data can be done **with few buttons to press or mouse clicks**. This high degree of automation **reduces the effort and the risk of failure.**

Define HACCP tasks

Complying to the relevant **EU regulations** for food safety requires to introduce control mechanisms, create cleaning instructions and define other tasks. All of these can be entered in the software of the **ebro® HACCP system easily** and **extremely flexible.** The tasks and dates for the cleaning and measurement personnel arise from those measures, and the system will **inform, remind and guide** them.

Keep control

The **ebro® HACCP system** offers the option to **identify measurement locations** and the **personnel** via NFC tags. This works similarly to cards for clocking out. Among other things, the tags are there to confirm **the right person** has measured at the right location. These data can be checked in the software later on. Thus, the fulfillment of the previously defined tasks **can be followed easily.**

Create reports

The **ebro® HACCP system** can not only store measurement data, but also **date**, **time** and the **location** of each measurement, as well as the identifier of the **measurement personnel.** Therefore, all relevant data are stored in a **database**. These data can later be examined at any time. An annual report of the temperature, so far a sheer impossible task due to hundreds of sheets of paper, can be created with a few mouse clicks.

Keep track

Both upcoming and fulfilled HACCP tasks are clearly presented in the software. The data of **single stores** or **multiple sites simultaneously** can be evaluated with little effort. A dashboard for the corporate and quality management offers **an overview for the big picture.** Naturally, you can also go into detail if required.

The right software for every application

HACCP software MyCCP

MyCCP is a Digital Food Safety Management System that allows for defining, managing, scheduling and controlling Food Safety processes 24/7. With **MyCCP** it is possible to transform paper-based checklists into **digital checklists** to gain real-time insight and drive **Food Safety process** optimization. **MyCCP** can manage an unlimited number of locations, users (co-workers) and checklists. The digital checklists can easily be completed using the **MyCCP app**. The app also allows for taking pictures, receiving news and checking documents (e.g. working instruction, manuals).

The responsible **(quality) manager** can follow the tasks that have been completed and with what result, or which tasks still needs to be completed. **MyCCP** offers sample or routine **reporting** in a convenient and clear manner – for single measurement locations or all sites. **MyCCP** is a **cloud-based solution**, meaning that it can be accessed from all over the world. The **MyCCP app** can be downloaded for free on the AppStore (iOS) or the Google PlayStore (Android).

Evaluation software Easy Data Collector

The evaluation software **Easy Data Collector (EDC)** is a self-contained, windows-based **application software**. It offers the **collection, evaluation and storage of measurement data** gathered with the thermometers, especially to customers who don´t need the **MyCCP** software. **EDC** focusses entirely on the measurement data, similar to the ebro® **Winlog. basic** software.

EDC has its own **database**. Accurate analysis of the measurement data, e.g. weekly or monthly trends, or evaluations based on locations are no problem. Even after years, such **reports can be made with a few mouse clicks.**

Applications

Collecting data with TLC 750 BT and EDC

The thermometer **TLC 750 BT** is ideal for regular round walks to check the temperature e.g. of **cooling rooms** or during **incoming goods inspections**. The temperature and time data will be stored in the device and then transferred to the **ebro® EDC software** on a PC. There it can be supplemented with additional data, e.g. personnel and locations, if required. **Reports and other evaluations** can be made at any time.

This application of the **ebro® HACCP system** is ideal if it´s all about **controlling the temperature and storing the data.**

HACCP with TLC 750 BT and MyCCP

You can define the various HACCP tasks in **MyCCP**, whereupon the **MyCCP app** informs the responsible personnel. If it´s cleaning the floor, washing the cutlery or the workwear – all can be entered, fulfilled and later checked. One of those tasks can be **temperature control**, and for that the **TLC 750 BT** is ideal. The thermometer sends the measurement data to the app, which forwards it to the cloud.

This application of the **ebro® HACCP system** is ideal if it´s about the computer aided **implementation of an HACCP concept**, which includes temperature control, among other things.

Collecting data with TLC 750 NFC and EDC

The thermometer **TLC 750 NFC** can do anything the **TLC 750 BT** can do, and in addition communicates with NFC tags. These allow for a higher degree of **automation and control**, since the measurement locations and personnel do not need to be entered manually. The EDC software receives complete data sets.

This application of the **ebro® HACCP system** is ideal if it´s about **controlling the temperature** and **storing the data**, with **optimized processes** and a high certain degree of **control**.

HACCP with TLC 750 NFC and MyCCP

This application comprises all options of **TLC 750 BT** with **MyCCP**. In addition, **measurement locations** and **personnel can be identified** via NFC tags. During the definition of the measurement task, who shall measure where and when has already been determined. Usually it is hard to follow if indeed this has been done as intended, though. The tags are there as an additional **verification** and increase the degree of **control**.

This application of the **ebro® HACCP system** is ideal if it´s about the computer aided **implementation of an HACCP concept**, which includes temperature control, among other things, and requires the highest degree of control.

Technical data

Technical data

Measurement range	-50 °C ... +250 °C (-58°F ... 482°F)
Accuracy infrared	±4 °C at -50 °C ... -30,1 °C (±7.2°F at -58°F...-22°F) ±2,5 °C at -30 °C ... -18,1 °C (±4.5°F at -22°F...-0.4°F) ±1,5 °C at -18 °C ... -0,1 °C (±2.7°F at -0.4°F...149°F) ±1,0 °C at 0 °C ... +65 °C (±1.8°F at 32°F...149°F) ±2,0 °C or 2 % at +65 °C ... +250 °C (±3.6°F at 149°F...482°F)
Accuracy penetration probe	±0,5 °C at -30 °C ... +99.9 °C (±0.9°F at 22°F...212°F) ±1 °C (±2°F) or 1 % for the remaining measurement range (whichever is larger)
Resolution	0,1 °C / 0.2°F
Distance: Spot ratio	8:1
Sensor	Thermocouple type T
Operating temperature	-20 °C ... +50 °C (-13°F ... 122°F)
Storage temperature	-30 °C ... +70 °C (-40°F ... 158°F)
Battery	Recharchable lithium polymer battery 3,7 V
Battery lifetime	Approximately 8 h of continuous usw
Battery charging	Wireless or via USB C port, 500mA
Dimensions (L x W x H)	169.5 x 44x23mm (without probe), needle length = 100mm
Housing material	ABS
Weight	Approximately 140 g
Protection class	IP 65
Automatic deactivation	Automatically after 15 seconds, deactivatable
Certificate	Factory Calibration Certificate
Memory capacity	200 Measurement values
Interfaces	NFC (only TLC 750 NFC), BLE, USB-C

The thermometers have an infrared sensor for **surface temperature** measurement and a penetration probe for **core temperature** measurement. The display with **backlight** can be read from both sides. This combination of features is ideal for **incoming goods inspections and storage monitoring.**

But they can do much more than that. The thermometers have a memory for up to 200 measurements. With one walkabout, all measurement locations can be handled. The measurements will be saved and can be transferred wirelessly via the **IF 750** or the **MyCCP app** on a mobile device to the PC at once – **no manual notes required anymore!**

On top of that, the **TLC 750 NFC** can read NFC tags, which can identify **measurement locations** and the **users** of the device. Hence it brings together all relevant data automatically and **without risk of failure:**
what has been measured by whom, where, and when – because the device also knows **date and time.**

The rechargeable battery can be charged with an appropriate device, e.g. the **IF 750**, or the USB interface.
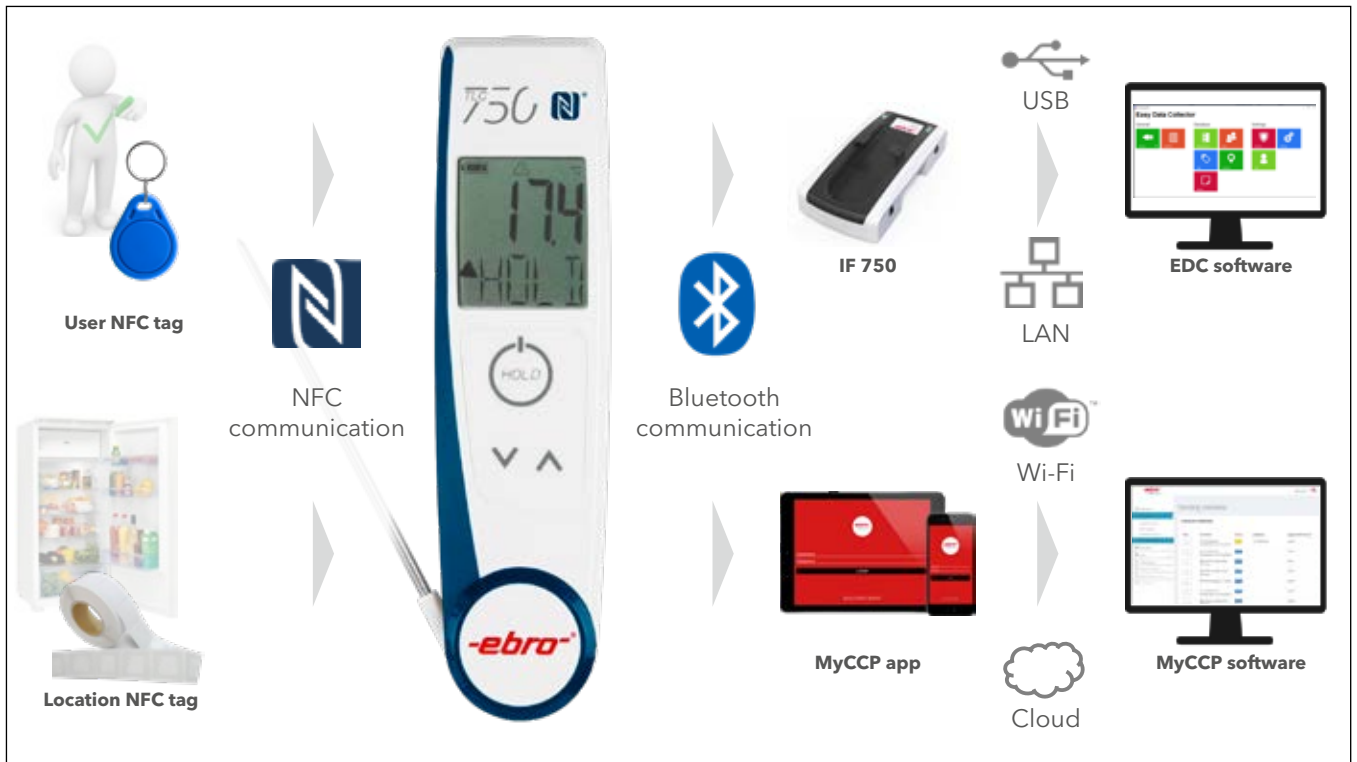
Digital temperature control at one glance

Fig. Complying to the hygiene requirements with the ebro® HACCP system

Accessories

The **IF 750** has a BLE interface, so that you can communicate with the thermometers even without mobile device. Additionaly, it has both a USB and an ethernet interface, allowing it to talk to a PC. Therefore it establishes the **connection between MyCCP software and measurement device.**

It also serves as **charging station** for the thermometers. Charging is done wirelessly, avoiding electric contacts and their common problems, like corrosion and wear.

The **NFC interface** of the **IF 750** offers reading NFC tags into the software while setting up the measurement system. There the tag information can be assigned to locations and users.

The **IF 750** is also there to **store** the thermometers. It can be laid on a flat surface e. g. a desk, or used as a wall mount.

IF 750

The **CS 750** is a combination of charging station and wall mount, and the **WM 750** is a wall mount only. Those two items are supplements to the system, in case several thermometers are used. They have the same shape as an **IF 750** and can be connected to it physically, so that the entire measurement system is **situated in a compact manner.**

The user NFC tags **UT 750** can be assigned to users of the **TLC 750 NFC**. Similar to a time card, the user will be identified by the tag. This way the **TLC 750 NFC** will know who is using it. That information will then be linked to the measurement data. **Later on you can follow who measured.**

The location NFC tags **LT 750** work in a similar way. They identify the measurement locations, e. g. a rack in a cooling room, or a fridge. **This way you can follow where it has been measured.**

UT 750

LT 750

How to order:

Typ	Description	Part No.
TLC 750 NFC	Dual HACCP-Thermometer	1340-5741
SH 750 NFC	Set: TLC 750 NFC, Interface IF 750 incl. charging station, evaluation software EDC, 5 User-Tags, 5 Location-Tags	1340-5752
TLC 750 BT	Dual radio thermometer	1340-5740
SH 750 BT	Set: TLC 750 BT, Interface IF 750 incl. charging station, evaluation software EDC	1340-5751
SI 750	Set: Interface IF 750 incl. charging Station and evaluation software EDC	1340-5750
CS 750	Charging station for the TLC 750 BT and TLC 750 NFC	1341-5750
UT 750	Set: 5 User-Tags for TLC 750 NFC	1341-5751
LT 750	Set: 5 Location-Tags for TLC 750 NFC	1341-5752
WM 750	Wall mount for TLC 750 BT and TLC 750 NFC	1341-5753
MyCCP	Supscription for the HACCP software MyCCP	1340-5760

xylem
Let's Solve Water

Xylem Analytics Germany Sales
GmbH & Co. KG, ebro
Peringerstr. 10
85055 Ingolstadt
Germany

Phone +49 841 95478-0
Fax +49 841 95478-80
Internet: www.ebro.com
E-Mail: ebro@xyleminc.com