

xylem



Pasteurization Control

TESTING THE STORAGE LIFE OF FOOD



-ebro-
a xylem brand

Everything under Control

- Reliable determination of the shelf life
- Food safety according to HACCP
- Lower operating costs



EBI 12-T210



EBI 12-T231

Today, preservation has become indispensable in our modern world with food logistics and supermarkets. You can find a best-before date on almost all foods. The basis for determining the best-before date is, among other things, monitoring the effect of heat and calculating the pasteurization value.

Regular control and documentation

The temperature in pasteurization and freeze-drying processes is crucial for the quality and safety of the food to be preserved. The food hygiene regulations require the recording of pasteurization temperatures and times.

The killing of microorganisms by briefly heating food is called pasteurization. Targeted heating of food can extend the shelf life. Of course, pasteurization depends on the type of germs. Depending on the germ and packaging of the food, different durations and temperatures of the heat treatments can be used for preservation.



The ideal data loggers from the EBI 12-T and EBI 11 series for pasteurization.

Good measurement accuracy and functionality of a data logger together with the robustness that is required for use in beverage production.



EBI 12-T26X*



EBI 12-T26X*



EBI 11-T210*

Temperature control in bottles, cans and tins

The **EBI 12-T21x** and **EBI 12-T23x** Series data loggers combined with a temperature sensor can be used to measure the temperature in canned food or jars. The data loggers can be attached to the metal lid or the side wall of the can using press-in nipples accessory, **EBI NI 140**. As an alternative to the single use press-in nipple, a compression fitting, **EBI-KV-3**, can be used for probes with a 3 mm diameter.

Another option, especially with a small footprint for smaller tins and cans, is to use the **EBI 11 miniature data logger** and place the logger inside the can. Our adapter set **AL 114** offers you everything you need for this.

* Each illustration shows a data logger in an application

Further information
+49 841 95478-0

More products and accessories for pasteurization at:

ebro.com/en/pasteurization

Accessories



Grommets for sensor fixing EBI NI-140

Allows precise fixation of the logger sensor, with a 3 mm diameter, in cans and glasses.



Compression fitting EBI KV-3

Allows exact positioning of the logger sensor, with a diameter of 3 mm, in glasses (lid).



Bottle adapter set AL 115

Allows exact positioning of the EBI 11 data logger in bottles.

Technical Data EBI 12-T and EBI 11

Type	EBI 12-T26x	EBI 12-T21x, EBI 12-T230 bis EBI 12-T233	EBI 12-T237
Measurement range and operating temperature	-55 °C ... +140 °C	-55 °C ... +150 °C	-40 °C ... +140 °C
Accuracy	± 0.8 °C (-55 °C ... -40 °C) ± 0.3 °C (-40 °C ... +140 °C)	± 0.5 °C (-55 °C ... 40 °C) ± 0.2 °C (-40 °C ... 0 °C) ± 0.1 °C (0 °C ... +150 °C)	± 0.2 °C (-40 °C ... 0 °C) ± 0.1 °C (0 °C ... +140 °C)
Data memory	27,840 measurement values		
Sample rate	1 s ... 24 h		
Dimensions (Ø x H)	48 mm x 24 mm*		

Type	EBI 11-T210	EBI 11-TP210
Measurement range and operating temperature	-30 °C ... +140 °C	0 °C ... +140 °C
Accuracy	Temperature: ± 0.2 °C (-30 °C ... 0 °C) ± 0.1 °C (0 °C ... +140 °C) Pressure:	± 0.1 °C (0 °C ... +140 °C) ± 20 mbar (1 mbar ... 4,000 mbar) ± 40 mbar (4,000 mbar ... 8,000 mbar)
Data memory	15,000 measurement values	7,500 measurement values per channel
Sample rate	1 s ... 24 h	
Dimensions (Ø x H)	16.5 mm x 24 mm*	16.5 mm x 48 mm*

* Dimensions may be different depending on the type.

Ordering Information

Type	Description	Part No.
EBI 12 Bottle loggers with 1 temperature probe, M10 thread and 6 mm diameter		
EBI 12-T261	135 mm needle length	1340-6618
EBI 12-T262	190 mm needle length	1340-6619
EBI 12-T263	245 mm needle length	1340-6620
EBI 12-T264	270 mm needle length	1340-6621
EBI 12-T265	300 mm needle length	1340-6622
EBI 12 data logger for cans and tins with 3 mm radial temperature probe		
EBI 12-T210	50 mm needle length	1340-6602
EBI 12-T211	75 mm needle length	1340-6603
EBI 12 data logger for cans and tins, M5 thread and 3 mm axial temperature probe		
EBI 12-T230	50 mm needle length	1340-6606
EBI 12-T231	75 mm needle length	1340-6607
EBI 12-T232	100 mm needle length	1340-6608
EBI 12-T233	150 mm needle length	1340-6609
EBI 12-T237	100 mm needle length	1340-6637
EBI 11 miniature data logger		
EBI 11-T210	1 temperature probe, M5 thread, 20 mm needle length, 3 mm diameter	1340-6260
EBI 11-TP210	temperature and pressure, M5 thread	1340-6265
Accessories		
AL 114	Can / bag adapter set for EBI 11	1340-6298
AL 115	Bottle adapter set for EBI 11	1340-6299
EBI DA	Can adapter for bottle loggers	1340-1963
EBI DA-Set	Can adapter set for bottle loggers	1340-1984
EBI FL-S	Bottle adapter, silicone	1340-1961
EBI NI-140	Grommets for sensor fixing up to +140 °C (100 pieces)	1340-1988
EBI KV-3	Compression fitting	1340-2005
Software and Interface		
SI 1100	Set: interface EBI IF 100 and software Winlog.pro	1340-6061