

## LABORTOPS

valid until 30<sup>th</sup> of September 2018



# EXTRA Special

### Standard PDF Data Logger EBI 300

PDF data logger with different temperature sensors.

- For temperature monitoring related to HACCP/IFS issues or other perishable goods
- Transportation of fresh, cool and deep cool products
- Monitoring of fridges and deep freezers
- Evaluation without software, PDF are automatically generated
- Minimise training, user errors and IT costs using EBI 300's simple, easy to use design and standard software.
- Ensure data integrity since no data manipulation is possible
- EN 12830, ATP, VO(EG) 37/2005 Compliant
- Factory calibration certificate included
- Programmable via the free online configurator at [www.ebi300.com](http://www.ebi300.com)
- No separate interface for programming and reading

**EBI 300:** PDF data logger with internal temperature sensor

**EBI 300 TE:** PDF data logger with external temperature sensor, internal temperature sensor can be used additionally.



### Ideal for HACCP

#### Specifications

Ambient temperature:	-30 ... +70 °C
Measuring range Temp. EBI 300:	-30 ... +70 °C
Measuring range Temp. EBI 300 TE:	-35 ... +70 °C
Temperature accuracy:	±0.5 °C (-20 ... +40 °C), ±0.8 °C for remaining range
Humidity accuracy:	±3 % (10 ... 90 % rh), ±5 % for remaining range
Resolution temperature/humidity:	0.1°C/0.1 % rh
Memory:	40.000 samples
Sensor:	NTC for temperature
Battery life:	up to two years
Measuring period:	1 minute to 24 hours
Maximum start delay:	72 h
Housing material:	Polycarbonate
Measuring modes:	Start/Stop, endless loop, start with button
Alarms:	2 values, high and low limits
Weight:	35 g
Protection class:	IP 65



### Accessories for PDF Data Logger EBI 300

Type	Description	PK	Cat. No.
EBI 300	Standard USB data logger with calibration certificate	1	7655865*LLG
EBI 300 TE	Temperature data logger incl. temperature probeTPC300	1	6266911*LLG

Type	Description	PK	Cat. No.
EBI 300-WM2	Wall Bracket	1	9908017*LLG

Infrared Thermometers TFI 260



Non-contact measurement of the surface temperature with infrared. Ideal for fast and secure measurements of moving or energized parts and food. Batteries and factory calibration certificate included.

Specifications

Measurement range:	-60 °C ... +550 °C
Accuracy:	±2 °C or 2 % (at 0 °C ... +550 °C), whichever is larger
Resolution:	0.1 °C
Distance : spot ratio:	12:1
Operating temperature:	0 °C ... +50 °C
Response time:	1 sec.
Emissivity factor:	0.95 fixed (0.1 ... 1.0 possible)
Dimensions (L x W x H):	153 x 115 x 48 mm
Weight (with batteries):	177 g
Battery:	2 x 1.5 V AAA, replaceable
Protection class:	IP 20

Type	Description	PK	Cat. No.
TFI 260	Infrared thermometer	1	6272762*LLG

Combination Infrared and Penetration Thermometer TLC 750i



Rotatable Display



Handy, waterproof infrared thermometer with large measurement range for non-contact measurement of the surface temperature and secure core temperature measurement with the folding penetration probe. For time-saving, precise temperature measurements at incoming goods, production and storage of diverse goods and food. Conform to HACCP and DIN EN 13485. With battery and factory calibration certificate.

- Display with backlight for reading in dark environments
- Display can be upside down for reading from both sides
- Double laser pointer

Specifications

Measurement range:	-50 ... +250 °C
Infrared accuracy:	±4 °C (-50 ... -30.1 °C) ±2.5 °C (-30 ... -18.1 °C) ±1.5 °C (-18 ... -0.1 °C) ±1.0 °C (0 ... +65 °C) ±2.0 °C or 2 % (+65 ... +250 °C)
Accuracy penetration probe:	±0.5 °C (-30 ... +99 °C) otherwise ±1 °C (1 %), larger value applies
Resolution:	0.1 °C
Sensor:	Type T
Operating temperature:	-25 ... +50 °C
Dimensions (L x W x H):	169.5 x 44 x 23 mm
Weight:	approx. 140 g
Battery:	2 x AAA (Micro), replaceable
Deactivation:	automatically after 15 sec., deactivatable
Protection class:	IP 65

Type	Description	PK	Cat. No.
TLC 750i	Combination Infrared and Penetration Thermometer	1	6289927*LLG

## Combination Infrared and Penetration Thermometer TLC 730



### Compact and Space-Saving



Handy, waterproof infrared thermometer with large measurement range for non-contact measurement of the surface temperature and secure core temperature measurement with the folding penetration probe. For time-saving, precise temperature measurements at incoming goods, production and storage of diverse goods and food. Conform to HACCP and DIN EN 13485. With battery and factory calibration certificate. Incl. frozen food drill.

#### Specifications

Measurement range:	-50 °C ... +350 °C
Infrared accuracy:	±4 °C at -50 °C ... -30.1 °C ±2.5 °C at -30 °C ... -18.1 °C ±1.5 °C at -18 °C ... -0.1 °C ±1.0 °C at 0 °C ... +65 °C ±2.0 °C or 2 % at +65 °C ... +350 °C
Penetration probe accuracy:	±0.5 °C at -18 °C ... +120 °C Otherwise ±1 °C [1 %], whichever is larger
Resolution:	0.1 °C
Sensor:	Type K
Operating temperature:	-25 °C ... +50 °C
Dimensions (L x W x H):	48 x 24 x 172 mm (without probe)
Weight:	Approximately 140 g
Battery:	2 x 1.5 V AAA, replaceable
Deactivation:	Automatically after 15 sec., deactivatable
Protection class:	IP 55

Type	Description	PK	Cat. No.
TLC 730	Combination infrared and penetration thermometer	1	6241105*LLG
AG 121	Nylon case for TLC 730	1	6207112*LLG

## Digital Hand Held Thermometer TTX 200



For measuring the core temperature with fixed probe, cable and handle.

- Very large display with large figures
- Easy handling, easy to read
- Replaceable battery
- Factory calibration certificate

#### Specifications

Temperature range:	-30 ... +199.9 °C
Resolution:	0.1 °C
Accuracy:	±0.5 °C (-30 ... +100 °C), otherwise ±1 %
Temperature sensor:	Type T
Sensor length/diam.:	120 mm/3 mm
Cable length:	600 mm
Housing:	ABS
Working temperature:	-20 ... +60 °C
Storage temperature:	-30 ... +70 °C
Dimensions (L x W x H):	127 x 60 x 16 mm (without sensor)
Weight:	approx. 220 g
Power supply:	CR 2032
Battery life:	approx. 100 h (continuous use)
Protection class:	IP 55

Type	PK	Cat. No.
TTX 200	1	6291272*LLG

# LABORTOPS

**! EXTRA  
Special**

## Cooking Oil Tester FOM 330



### To Comply with the New Acrylamide Regulation

Checks the quality and temperature of cooking oils, indicated by a clearly visible signal lamp.  
Can be used in hot oil up to 200 °C.

- Large display with big numbers
- Simplified menu structure
- Incl. calibration protocol

#### Specifications

Range:	+50 °C ... 200, °C 0 % ... 40 %
Accuracy:	±1 °C, ±2 %
Resolution:	1 °C, 0.5 %
Dimensions (W x L x H):	54 x 22 x 304 mm
Power supply:	3 V Lithium
Protection class:	IP 67

Type	Description	PK	Cat. No.
FOM 330	Cooking oil tester	1	6291242*LLG

## Punching Pin AG 190



For drilling holes in deep-frozen food to take the core temperature,  
e.g. for TTX 110, TLC 700, TLC 730, TLC 750i.

Type	PK	Cat. No.
AG 190	1	6291233*LLG