

# TECHNICAL SPECIFICATION

## Fridge-tag® 2 L for storage monitoring below -15 °C



	<b>Description</b>
	56-day electronic temperature logger w/USB
	<b>Manufacturer's ref</b> Fridge-tag® 2 L with external sensor
<b>External dimensions (L x W x H)</b>	128 x 75 x 19 mm
<b>Size of the LCD display</b>	95 x 27 mm
<b>Weight</b>	112 g
<b>Storage condition (inactive)</b>	0 °C to +30 °C
<b>Operating temperature (device)</b>	-25 °C to +55 °C*
<b>(Display visible)</b>	-10 °C to +55 °C
<b>Alarm temperature range</b>	-20 °C to +50 °C, in 0.1 °C increments
<b>Alarm limits</b>	Above -15 °C
<b>Alarm time</b>	30 minutes
<b>Alarm connection error to sensor</b>	10 minutes
<b>Alarm indication</b>	Visual and audible (beeper)
<b>Logging interval</b>	Every 5 minutes
<b>Accuracy of temperature measurement</b>	+/- 0.8 °C from -25 °C to -10 °C +/- 0.5 °C from -10 °C to +40 °C +/- 0.8 °C from +40 °C to +55 °C
<b>Measurement accuracy of the time</b>	+/- 30 minutes / year
<b>Calibration</b>	Every device is chip calibrated
<b>Memory space</b>	30 day overview on display/PDF report 56 day overview
<b>Date / time programming</b>	Date and time will be set when device is activated (see operation manual)
<b>Battery</b>	Lithium battery - complies with IATA DGR Packaging Instruction 970-Section 2 and is therefore not considered as dangerous good.
<b>Protection class</b>	IP64 (external sensor not plugged in)
<b>Operating lifetime and shelf life</b>	Up to 3 1/2 years (1/2 year storage/3 years useful life). The battery status indicator on the display provides information on the remaining lifetime.
<b>Activation</b>	Pressing the SET and READ button for at least 3 seconds
<b>Stopping</b>	No stop function
<b>Configuration</b>	Pre-set by Berlinger & Co. AG
<b>Manipulation</b>	Fridge-tag® 2 L cannot be manipulated or reset without destroying it
<b>Format of the original document</b>	ASCII (it can also be imported by many ERP or data management systems) / PDF
<b>Free software for verifying PDF and ASCII file</b>	JAVA™ / The software verifies the digital signature of the ASCII and PDF files. FDA regulation 21 CFR Part 11 compliant. Software is compliant with GAMP 5 requirements.
<b>Standards</b>	ASTM 2500, 21 CFR Part 11, 21 CFR Part 820, ICH Q8/Q9, ANSI/IEEE 829/830/1008, EN 12830, 2002/95 EC Directive (RoHS), EN 61000-4-2/6-2/6-4 EMC, EN/IEC 60529 IP protected classes IATA Regulations

\* for temperatures below 0 °C (+32 °F) we recommend to use an external sensor in order to avoid a shorter battery life.

Subject to change. Please note that all information in this document is correct at the time of publication. Due to our policy of continuous product development, we reserve the right to change this information without prior notice.

# External Sensor: „Standard“ Version



Cable dimension (L x B)	1080 mm x 5 mm
Weight (cable including vacuum cup)	12 g
Vacuum cup diameter (condition: pressed down)	41 mm
Vacuum cup height (condition: pressed down)	15 mm
Operating temperature (sensor)	-40 °C to +60 °C
Accuracy of temperature measurement	+/- 0.8 °C from -40 °C to -30 °C +/- 0.5 °C from -30 °C to +40 °C +/- 0.8 °C from +40 °C to +60 °C