

CREATING MEASUREMENT SOLUTIONS



kiro solo

**CERTIFICATIONS**

Certificate DIN EN ISO 9001 : 2015

ESD-Certificate DIN EN 61340-5-1

TEMPERATURE | HUMIDITY |  
PRESSURE  
ALL FOR YOUR WIRELESS  
MEASUREMENT AND  
DATA COLLECTION FROM ONE  
PROVIDER!

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**B+B Thermo-Technik develops and manufactures innovative product and industry solutions with the highest quality expectations for your precise measuring tasks.**

**B+B Thermo-Technik** has been developing and manufacturing high quality temperature probes since 1984. Closely associated with temperature measurement are the fields of humidity and pressure. This resulted in the company's programme to be expanded in 2011 to include solutions for both these specialist fields. Simply take advantage of B+B's extensive experience and professional knowledge. B+B Thermo-Technik is located at Donaueschingen in south west Germany, and from here, its increasingly reputable products are sold all over the world.







With the aid of the latest research, development and production technologies and coupled with the certifications in accordance to DIN EN ISO 9001 : 2008 and DIN EN 61340-5-1, we are able to manufacture our products to the highest possible standards. Of course, we also offer our customers the added service of issuing test certificates within our own calibration laboratory.

Both quality and working closely together with the customer are integral parts of B+B's corporate philosophy. This is why B+B temperature probes, thermocouple connectors, Humidity probes and pressure sensors are predominantly manufactured in Germany or in 100% owned subsidiaries worldwide.

This assures continual quality control, flexible reactions to both the customer's requirements and modifications, and being able to deliver promptly.

**Customer - specific construction**  
Please specify your application and we shall supply you the right product for measuring and controlling the temperature, pressure or humidity. Special emphasis is always placed on professional and close cooperation with you, thus allowing for the optimal development of your product. Our experience shows that this partnership also creates innovative concepts and fresh ideas, thereby providing new energy for the future, which is vital for both parties.

**DELIVERY PROGRAMME**

 TEMPERATURE	 HUMIDITY	 PRESSURE			
 kiro	 Service	 Brightness/Movement	 Air quality	 Fill level	 Accessories

### The wireless data logger for the 4th industrial revolution

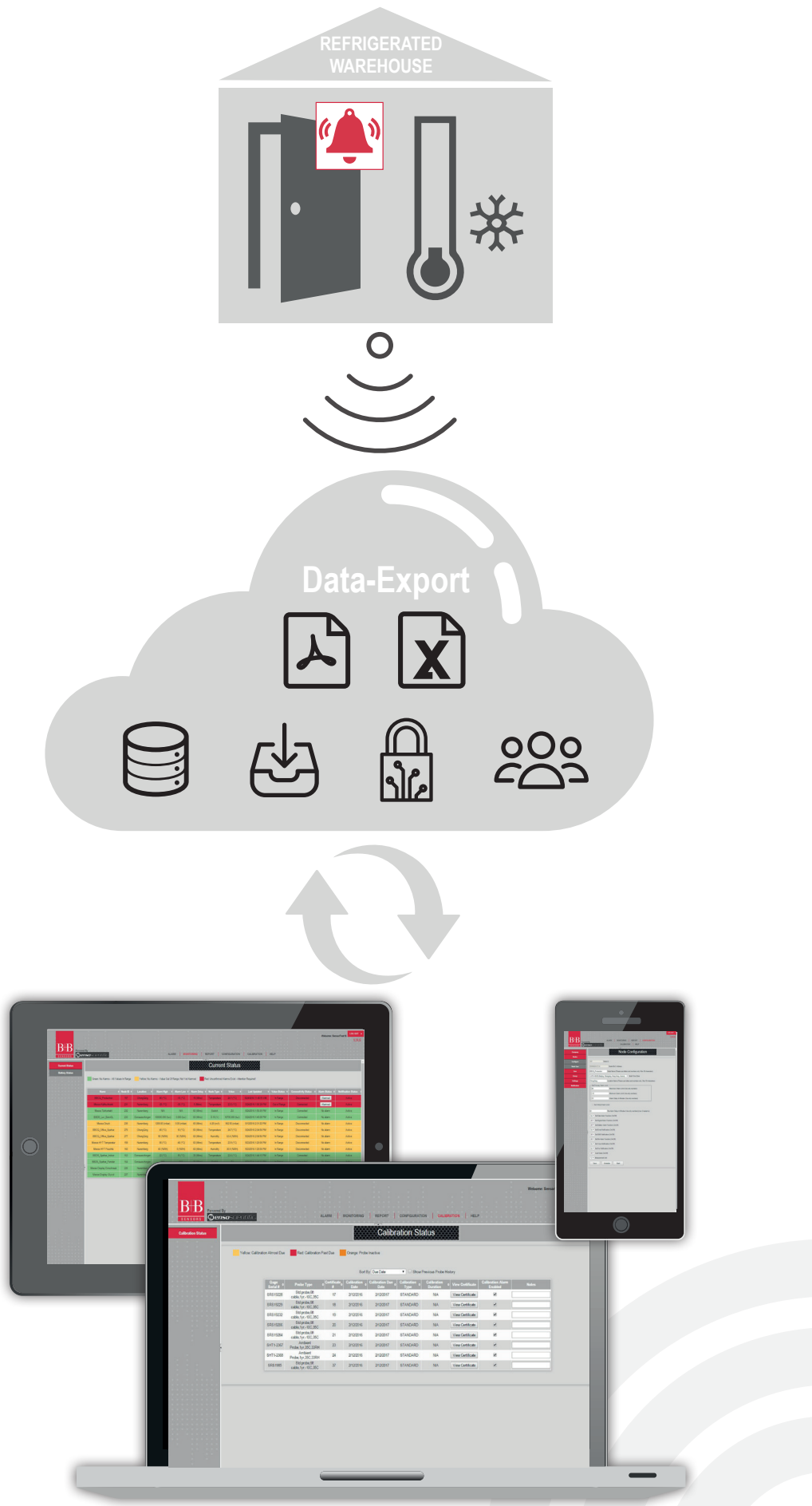
Do you have to record measuring data such as temperature, humidity, pressure or light in either one or more locations like cold stores or warehouses? You would like to control this data from each device at each location, from wherever you are? Then kiro solo is the ideal device for you!

Each single kiro solo data logger is able to transmit your data independently and directly by WLAN into the cloud. All you need is an internet connection with WLAN. It does not matter where you are, the data can be easily accessed via a conventional browser on your PC, tablet or smartphone.

With a simple click you can then export your data as a PDF report or for further processing as an Excel list. It could not be easier for you!

**Example of applications – Refrigerated warehouse:** The universal device can be provided with any type of analogue or digital probe – even with an optional door-contact! This way you can quickly anticipate the temperature alarm before it is switched on, and the open door can be promptly closed.

Do not miss this gateway to the intelligent and interconnected world of measurement. Simply give us a call or send us an e-mail, and we shall endeavour to find the optimal solution for your particular application.



### Individual data logger for your measurement applications

- Each single device can communicate with the cloud via WLAN
- Measurement data can be viewed anywhere
- Measurement of temperature, humidity, pressure, light, air quality and many other factors
- May be operated with either analogue or digital probes
- Optional door-contact available
- The calibration certificate is stored in the cloud and can be accessed online visiting [www.cloud.bb-sensors.com](http://www.cloud.bb-sensors.com)
- Reminder function for recalibration



### 100 % secure

By using Microsoft Azure® the cloud offers the same top security standard of the banks thereby assuring the highest performance.



### 100 % reliable

Regular automatic backups ensure permanent availability of your data. The calibration certificates can be viewed at any time and they will never be misplaced.



### 100 % controllable

Set up and designate your sensors, determine their location and configure the users with their variable rights.



### 100 % simple

With just a few clicks, export your data as a PDF report, for further processing as an Excel List or .csv file.



### 100 % informative

Receive automatically reports from the different sources, with the appropriate events and diagrams. Confirm and verify with a reason and functionality check. As an option you can be regularly reminded automatically of any mandatory recalibration required.



### 100 % flexibility

Take your devices from their wall mounting and simply change their location. Access any of your sensors worldwide via the browser, wherever you may be.



### 100 % tested

Quality, processes, system and application support, fully validated, tested and transparent. Optional DIN EN ISO/IEC 9001 and 17025 calibrations. Conforms to: FDA 21 CFR Part 11



kiro solo									
Designation	B+B kiro solo 1x°C WLAN data logger	B+B kiro solo 1x°C WLAN data logger	B+B kiro solo 2x°C WLAN data logger	B+B kiro solo 2x°C WLAN data logger	B+B kiro solo 1x°C/%RH WLAN data logger	B+B kiro solo 1x°C/%RH WLAN data logger	B+B kiro solo universal 1x0...5V WLAN data logger	B+B kiro solo universal 1x0...10V WLAN data logger	B+B kiro solo universal 1x4...20mA WLAN data logger
Article number	0566 1001	0566 1001-20	0566 1002	0566 1002-20	0566 1003	0566 1003-20	0566 1004	0566 1005	0566 1006
Display	—	●	—	●	—	●	—	—	—
Wall mount	●	●	●	●	●	●	●	●	●
Glycol vial	●	●	●	●	—	—	—	—	—
Power supply	4 x AA, 3,6 V, or external	4 x AA, 3,6 V, or external	4 x AA, 3,6 V, or external	4 x AA, 3,6 V, or external	4 x AA, 3,6 V, or external	4 x AA, 3,6 V, or external	4 x AA, 3,6 V, or external	4 x AA, 3,6 V, or external	4 x AA, 3,6 V, or external
External power supply	○ (Art. No. 0554 1000)	○ (Art. No. 0554 1000)	○ (Art. No. 0554 1000)	○ (Art. No. 0554 1000)	○ (Art. No. 0554 1000)	○ (Art. No. 0554 1000)	○ (Art. No. 0554 1000)	○ (Art. No. 0554 1000)	○ (Art. No. 0554 1000)
Meteorological information									
Measurand	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature and Humidity(°C/%RH)	Temperature and Humidity (°C/%RH)	universal	universal	universal
Sensor input	1xPt100, DIN EN60751, 4-wire	1xPt100, DIN EN60751, 4-wire	2xPt100, DIN EN60751, 4-wire	2xPt100, DIN EN60751, 4-wire	Digital temperature- humidity sensor	Digital temperature- humidity sensor	Analogue 0...5V DC	Analogue 0...10V DC	Analogue 4...20mA
Measuring range	-50...200°C	-50...200°C	-50...200°C	-50...200°C	-40...120°C / 0...100%RH	-40...120°C / 0...100%RH	0...5V	0...10V	4...20mA
Accuracy	±(0,15 + 0,002 x  T )	±(0,15 + 0,002 x  T )	±(0,15 + 0,002 x  T )	±(0,15 + 0,002 x  T )	±0,4°C (@25°C) / ±3 %RH	±0,4°C (@25°C) / ±3 %RH	According to the connected probes	According to the connected probes	According to the connected probes
Resolution	0,1°C	0,1°C	0,1°C	0,1°C	0,1°C / 0,1 %RH	0,1°C / 0,1 %RH	14 Bit	14 Bit	14 Bit
Sensors are not included in the scope of delivery. Please order separate.					Sensors are not included in the scope of delivery. Please order separate.				

- Scope of delivery
- optional (accessories)
- not available

KIRO SOLO CLOUD

Cloud variations	Article number
12 months	0801 0001
24 months	0801 0001-01
36 months	0801 0001-02



Temperature probes for B+B kiro solo

Sensor type		Article number	Measuring range	Output signal	Accuracy	Cable length	Dimension	Suitable for kiro solo
Cable probe		0625 0031-100	-50...200°C	Pt100 passive, 4-wire	DIN EN 60751 Class A	1830 mm	D7x91,5mm Stainless steel	0566 1001
		0625 0031-101				23 mm		0566 1001-20
		0625 0031-102				3660 mm		0566 1002 0566 1002-20
Pipe clip-on probe		0627 6113-08	-20...120°C	Pt100 passive, 4-wire	DIN EN 60751 Class B		16-19 mm	0566 1001
		0627 6113-09					20-22 mm	0566 1001-20
		0627 6113-10					25-27 mm	0566 1002
		0627 6113-11					28-35 mm	0566 1002-20
Connection cable for pipe clip-on probe and kiro solo data logger		0409 3005-10					1910 mm	
		0409 3005-11					3740 mm	
Penetration probe		0600 0065-200	-50...260°C	Pt100 passive, 4-wire	DIN EN 60751 Class A	3000 mm	D4x100mm Stainless steel	0566 1001 0566 1001-20
		0600 0067-200					D4x100mm Stainless steel, angled handle	0566 1002 0566 1002-20

Temperature probes for B+B kiro solo

Module type		Article number	Measuring range	Output signal	Accuracy	Resolution	Dimension	Suitable for kiro solo
Sensor module		PT-MOD-20MA-TX	customized	4-20 mA, Pt1000 passive	On variant	14 bit	26,5x15x5mm	0566 1006
		PT-MOD-10V-TX		0-10 V, Pt1000 passive				0566 1005
Sensor module		TEMOD-I2C-RX	customized	Digital I2C, 0-5V, thermocouple K	On variant	14 bit	9x37x5mm	0566 1004
		THMOD-I2C-RX		Digital I2C, 0-5V, Pt1000, passive				

Temperature- and humidity probes for B+B kiro solo

Sensor type		Article number	Measuring range	Output signal	Accuracy	Cable length	Dimension	Suitable for kiro solo
Digital humidity-/temperature probe		0636 0020-100	-40...120°C 0...100%RH	Digital, I <sup>2</sup> C	±0,4°C (@25°C) ±3%RH (0-90%RH)	60 mm	D12x48mm stainless steel	0566 1003
		0636 0020-101				1830 mm		0566 1003-20

Brightness sensor for B+B kiro solo

Sensor type		Article number	Measuring range	Output signal	Accuracy	Dimension	Suitable for kiro solo
Brightness sensor		0555 3001	0...100 000 Lux	0-10V	±15%	65x59x50mm	0566 1005
		0555 3002	0...1000 Lux				

Pressure transmitters for B+B kiro solo

Module type		Article number	Housing	Output signal	Accuracy	Sensor type	Resolution	Process connection	Suitable for kiro solo
Pressure transducer, absolute		DRTR-AL-20MA-AXX	Aluminium	4-20mA	Max. ±0,4%FS	Ceramic measuring cell	13 Bit	G1/4"	0566 1006
		DRTR-AL-10V-AXX		0-10V					0566 1005
		0550 2291-0XX	Stainless steel	4-20mA					0566 1006
		0550 2191-0XX	Stainless steel	0-10V					0566 1005
Pressure transducer, relative		DRTR-AL-20MA-RXX	Aluminium	4-20mA	Max. ±0,2%FS	Ceramic measuring cell	13 Bit	G1/4"	0566 1006
		DRTR-AL-10V-RXX		0-10V					0566 1005
		0550 1291-0XX	Stainless steel	4-20mA					0566 1006
		0550 1191-0XX	Stainless steel	0-10V					0566 1005
Pressure transducer module, differential		DRMOD-I2C-RXXX	Aluminium	0-5V Digital I <sup>2</sup> C	Max. ±0,3%FS	Piezo-electric	14 Bit	Hose connection 1/8"	0566 1004
		DRMOD-I2C-PDXXX	Plastic					Hose connection 4,7mm	

Customized probes possible on request.

		Article number	Material	Output signal	Suitable for kiro solo
Power supply		0554 1000		3,6 VDC 0,3A	0566 1001 0566 1001-20 0566 1002 0566 1002-20 0566 1003 0566 1003-20 0566 1004 0566 1005 0566 1006
Protective cover		0554 1002	Plastic		0566 1001 0566 1001-20 0566 1002 0566 1002-20 0566 1003 0566 1003-20 0566 1004 0566 1005 0566 1006
Glycol vial		0192 0304	PET		0566 1001 0566 1001-20 0566 1002 0566 1002-20
Glycol vial, filled with Glycol		0192 0304-10	PET - Glycol		0566 1001 0566 1001-20 0566 1002 0566 1002-20
AA Batteries		0990 0016-10	LiSOCl <sub>2</sub>	3,6 V	0566 1001 0566 1001-20 0566 1002 0566 1002-20 0566 1003 0566 1003-20 0566 1004 0566 1005 0566 1006

B+B Thermo-Technik offers the new kiro solo data logger product range in various performances, with different sensors for diverse applications.

Monitoring of:

- Hospitals
- Laboratories
- Vaccines
- Clean rooms
- Machines
- Transports
- Museums
- Agriculture
- Printing industry
- Server rooms
- Wine cellars
- Food
- Refrigerated counters
- Freezers
- Central heating systems
- District heating plants
- Greenhouses

The unique B+B modular system for kiro solo data logger enables you the composition of the perfect measurement solution, individual adjusted for your measuring problem. Compose your personal wireless data logger and convince yourself about our unique measurement solution.

„Create your own kiro“



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