JUICIDO IIII Wireless TEMP





Wireless Monitoring and Control of JULABO Temperature Control Instruments via PC or Remote Control

Functions:

- ▶ Wireless monitoring and control of JULABO temperature control instruments
- ▶ Wireless transmission and display of parameters, such as set points, actual values, output, warning messages and error messages from large distances
- ▶ Communication with up to 8 JULABO temperature control instruments

Benefits:

- ▶ A convenient way to operate JULABO instruments from your workstation
- > Spend less time and resources monitoring the instruments
- ▶ Greater flexibility in choosing location for the instrument
- ▶ Cost reduction because the hassle of running cables is eliminated
- ▶ Ideal solution as 'Remote Display' for your application
- ▶ Works with virtually all JULABO temperature control instruments with RS232 interface







Overview of Products





Remote Control Handy remote control unit for display and control of up to 8 JULABO instruments

- Display and adjust set points and actual values
- Display output data, warning messages and error messages
- Display and select units within wireless range

Transmitter Send/receive module for JULABO temperature control instruments with RS232 interface

- Inserted into the temperature instrument's RS232 port
- Receives control commands
- Sends instrument data, status messages, and measurement values to a PC or 'Remote Control' unit

Wireless PC USB Stick Send/receive module for PC's with USB interface

- · Connect to USB interface on PC
- Sends control commands
- Receives data, status messages, and measurement values from the temperature control instruments

Router Extends wireless range

- Plug into any standard electrical socket
- Extends the range of the wireless connection





The 'WirelessTEMP' series of products gives you a variety of ways to communicate with up to eight JULABO temperature control instruments using a PC or the JULABO 'Remote Control'. 'WirelessTEMP' works with virtually all JULABO instruments equipped with an RS232 interface.

Intelligent technology makes it easy to get started. Just switch on the system and connections will be established automatically. With 'WirelessTEMP Configurator' software, users can set up even complex networks with several separate, independent groups of instruments (PAN's). This enables disturbance-free operation in neighboring laboratories.

Standard instrument combination with 'Remote Control' for controlling and querying up to eight JULABO instruments

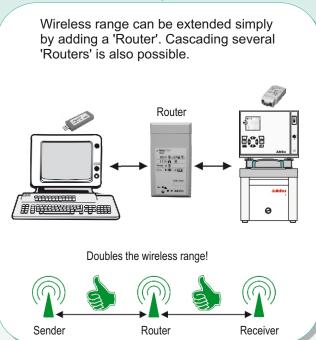
Example 1

Standard instrument combination with PC and 'Wireless PC USB Stick' for controlling and querying up to eight JULABO instruments

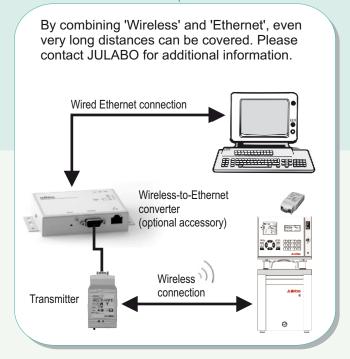
Computer with 'Wireless PC USB Stick'

Example 3

Remote Control



Example 4







'Remote Control' functions

- 1. Status displays for heater, cooling, alarms
- 2. Battery charge status
- 3. Wireless connection status
- 4. Temperature in °C/°F or heater output in %
- 5. Internal/external temperature control
- 6. Display of located units
- 7. Display of actual working temperature value
- 8. Display of working temperature set point
- 9. Display of unit's start/stop status
- 10. Display of selected unit



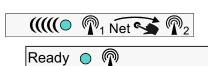


'Transmitter' and 'Router' functions

Status lights continuously indicate the send and receive status of a 'Transmitter' or 'Router' that is active in the network.

The following information is provided:

- 1. Status of network connection or search
- 2. Data transmission
- 3. Fault conditions, such as "no network found"









An included adapter (gender changer) makes it possible to connect the 'Transmitter' directly to the RS232 interface on the rear side of the instrument.

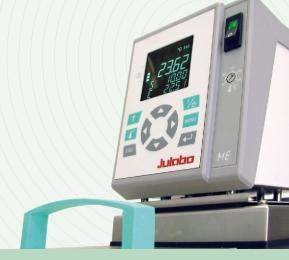


'Wireless PC USB Stick' functions

The 'Wireless PC USB Stick' turns a PC into a centralized control station for all 'WirelessTEMP' components. 'WirelessTEMP Configurator' software is included to facilitate convenient setup, administration and monitoring of the network.

'Wireless PC USB Stick' enables:

- 1. Administration of network units
- 2. Assignment of unambiguous names
- 3. Establishment of multiple PAN's (separate, independent network groups)
- Extensive control procedures and recording of measurement data in conjunction with 'EasyTemp Professional' software (not included).



'WirelessTEMP Configurator' Software



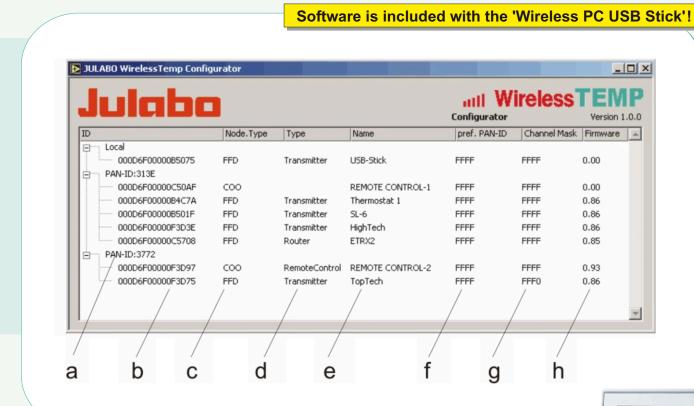
'WirelessTEMP Configurator' software for PCs makes it easy to set up extensive communication networks. 'WirelessTEMP Configurator' is included with 'Wireless PC USB Stick'. With this software, users can configure individual units within a wireless network directly from their PC. This makes the task of establishing or expanding networks quick and easy.

Some of the features in 'WirelessTEMP Configurator' software:

- ▶ Automatic discovery of networks within wireless range
- ▶ Display of located networks, grouped according to PAN ID if several networks found
- ▶ Network configuration, such as setting device names, wireless channels, etc.

Note:

Use of this software is necessary if several neighboring networks exist or if using more than one 'Remote Control' unit. In these cases, each unit requires one-time configuration using the 'Wireless PC USB Stick' (to set wireless channel, PAN ID, etc.).



- a. Display PAN ID (Personal Area Network for closed network group)
- b. Display MAC addresses of connected devices
- c. Display each unit's function in the network, such as Coordinator (COO) or Full Function Device (FFD)
- d. Display unit type, such as 'Remote Control', 'Transmitter', or 'Router'
- e. Display and assign any desired unit names
- f. Display and set a unit to a single, specific PAN ID
- g. Display and set open wireless channels
- h. Display firmware version of each unit



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Main Components

Remote Control

Order No.: 8 900 500 Order No.: 8 900 505

(ATEX version)



Included items:

- ✓ Remote control unit
- ✓ 3 Batteries

 1.5 V Micro (AAA)
- ✓ Power supply unit with plug adapters for EU, USA, UK, CH, AU Input: 100-240V~ / 50-60Hz Output: 5V= / 1A (not with ATEX version)

Transmitter for JULABO instruments

Order No.: 8 900 520



Included items:

- ✓ Transmitter
- Adapter (gender changer) for connection to RS232 interface of JULABO instrument
- ✓ Power supply unit with plug adapters for EU, USA, UK, CH, AU Input: 100-240V~ / 50-60Hz Output: 5V= / 1A

Wireless PC USB Stick

for PC connection

Order No.: 8 900 540



Notice: JULABO recommends 'EasyTEMP Professional' software for PC-enabled instrument control and data logging.

Included items:

- ✓ Wireless PC USB Stick
- ✓ Software 'WirelessTEMP Configurator'
- Driver software

For Microsoft® Windows® Versions 98SE / 2000 / XP

Router

for extending wireless range

Order No.: 8 900 530



Included items:

- ✓ Router
- Available with choice of AC adapter for EU, USA, UK, CH

Please indicate choice when ordering!

Accessories

'EasyTEMP Professional' Software

Order No.: 8 901 105



Software solution for controlling, visualizing, and documenting temperature-based and time-based procedures.

With 'EasyTEMP Professional' software, you can control and monitor up to eight JULABO instruments. The connection is established either directly through an RS232 data cable or wirelessly with the 'WirelessTEMP' products described here. 'Wireless PC USB Stick' is required for wireless communication between temperature control units and a PC.

A free version of 'EasyTEMP' software for simple control tasks with just one JULABO instrument is available as download at www.julabo.de.



Batteries (ATEX)

Order No.: 8 900 590



3 Replacement batteries for using 'Remote Control' unit without being dependent on mains power.

Special ATEX-approved battery!

Notice

The ATEX version of 'Remote Control' unit must be powered with ATEX-approved batteries only.







The new 'WirelessTEMP' products uses the 'ZigBee' wireless standard for industry, which ensures stable and secure connections even in an industrial environment.









JULABO Model:		Remote Control	Transmitter	Wireless PC USB Stick	Router	
JULABO Order No.:		8 900 500 8 900 505 (ATEX)	8 900 520	8 900 540	8 900 530	
Power consumption (send mode):	mA	45	45	45	45	
Permissible operating temp.:	°C	+5 +40	+5 +40	+5 +40	+5 +40	
Receiver sensitivity:	dBm	-92	-92	-92	-92	
Max. transmitting power:	dBm	+5	+5	+5	+5	
Max. data transmission rate:	kbps	256	256	256	256	
Frequency range:	GHz	2.4	2.4	2.4	2.4	
Range in open area:	m	~ 70	~ 70	~ 70	~ 70	
Range in rooms with few obstacles:	m	~ 30	~ 30	~ 30	~ 30	
Range in Buildings:		1-2 masonry obstacles (about 10-25 m) with bricks 0-1 masonry obstacles (less than 10 m) with steel-reinforced concrete				
Dimensions (W x D x H):	mm	70 x 32 x 122	43 x 24 x 88	29 x 12 x 85	67 x 78 x 125	
Weight:	g	170	45	21	230	
Power supply:		With plug-in power supply unit 100-240V~/50-60Hz or 3 batteries type 1.5 V Micro (AAA)	With plug-in power supply unit 100-240V~/50-60Hz	Directly through USB interface on PC	Mains socket 230V / 50Hz or 115V / 60Hz	
Notes:		ATEX version may be operated with batteries only, so a power supply unit is not included	When used with HighTech circulators, power is supplied through the circulator			



JULABO provides custom programs, device drivers, and even control hardware for customers with specialized requirements.



JULABO Worldwide



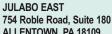


Headquarters:

JULABO LABORTECHNIK GMBH 77960 Seelbach / Germany

- ***** +49 7823 51 0
- +49 7823 2491
- 🖅 info@julabo.de
- www.julabo.de

JUIDD North America



ALLENTOWN, PA 18109

JULABO WEST 2575 Pioneer Ave, Suite 102 VISTA, CA 92081

JULABO EAST and JULABO WEST are subsidiaries of JULABO USA, Inc.



- ***** +1 610 231 0250
- +1 610 231 0260
- info@julabo.com
- www.julabo.com
- **2** +1 760 842 8010
- +1 760 842 8015
- info@julabo.com www.julabo.com



JULABO JAPAN Co., Ltd. Via Ritz Ibaraki 8-18 Sonoda-cho, Ibaraki OSAKA 567-0825

- ***** +81 72 638 7200
- +81 72 638 7201
- info@julabo-japan.co.jp
- www.julabo-japan.co.jp

Juicho Singapore

JULABO SINGAPORE Pte., Ltd. 16, Aver Rajah Crescent # 04-05G

Tempco Technominium SINGAPORE 139965

- ***** +65 6775 1516
- +65 6775 1627
- **≢**≡" info@julabo-singapore.com
- www.julabo-singapore.com

Julaba uk

JULABO UK, Ltd. 34 Thorpe Wood **Thorpe Wood Business Park** PETERBOROUGH PE3 6SR

- ***** +44 1733 265892 +44 1733 264111
- info@julabo.co.uk

www.julabo.co.uk

Julabo CHINA

JULABO Technology (Beijing) Co., Ltd. 🕿 +86 10 5165 6060 Room 503C, Building 106, Wangjing New Industrial Zone, Lize Zhongyuan 🖅 info@julabo.com.cn Chaoyang District, BEIJING 100102

- +86 10 6439 0344
- www.julabo.com.cn

Julaba iTALiA sel

JULABO ITALIA Sri Via M. Prestinari, 2 **20158 MILANO**

JULABO SUDAMÉRICA

C1050AAF BUENOS AIRES

Tucumán 1650 - 1° 4



****** +39 02 3932 5483 +39 02 3931 7064

info@julaboitalia.it www.julaboitalia.it

***** +54 11 4374 5721

≢=7

+54 11 4374 5721

Julabo Korea

JULABO KOREA Co., Ltd. #407, New T-Castle 429-1, Gasan-Dong, Geumcheon-Gu SEOUL 153-803

***** +82 2 6277 3700

+82 2 6277 3701

info@julabo-korea.co.kr

info@julabo-kr

info@julabo-kr www.julabo-korea.co.kr

Juiabo India

SISKIN Instruments Co. (P) Ltd. 5/5, II Cross **MSREC Road**

BANGALORE 560054



***** +91 802 3602560 +91 802 3603679

info@julabo.in

www.julabo.in

PLUS more than 100 partner distributors worldwide.

info@julabo-sudamerica.com

www.julabo-sudamerica.com



Julubo South America

JULABO Labortechnik GmbH Eisenbahnstrasse 45 77960 Seelbach / Germany

+49 7823 51 0

+49 7823 2491

⋾ info@julabo.de

www.julabo.de