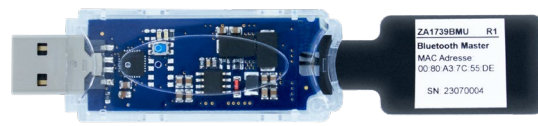


Wireless data connections with ALMEMO® Bluetooth modules ZA 1739-Bx

Wireless Bluetooth connection from a PC directly to an ALMEMO® measuring device ZA1739BPVU.

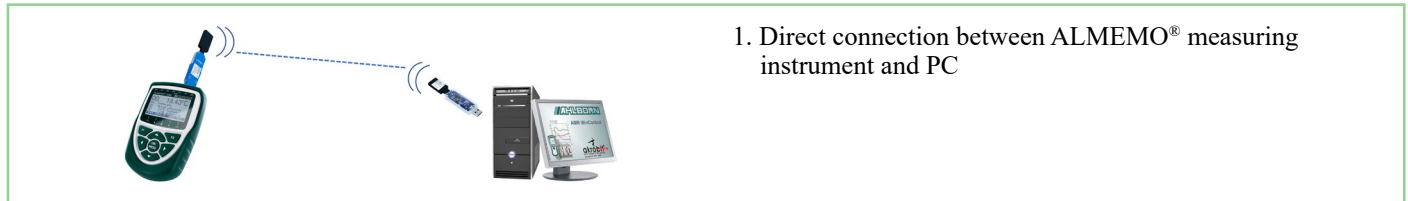


ZA1739BS



ZA1739BMU

Application:



Wireless Bluetooth connection between two ALMEMO® measuring devices ZA1739BNV.

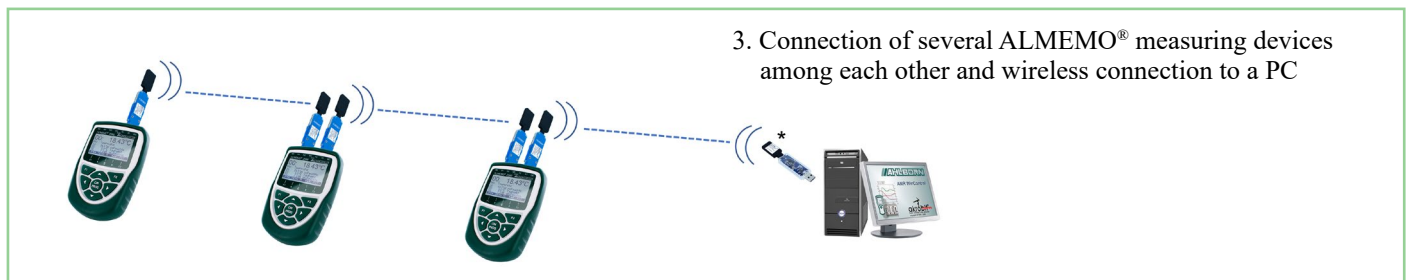
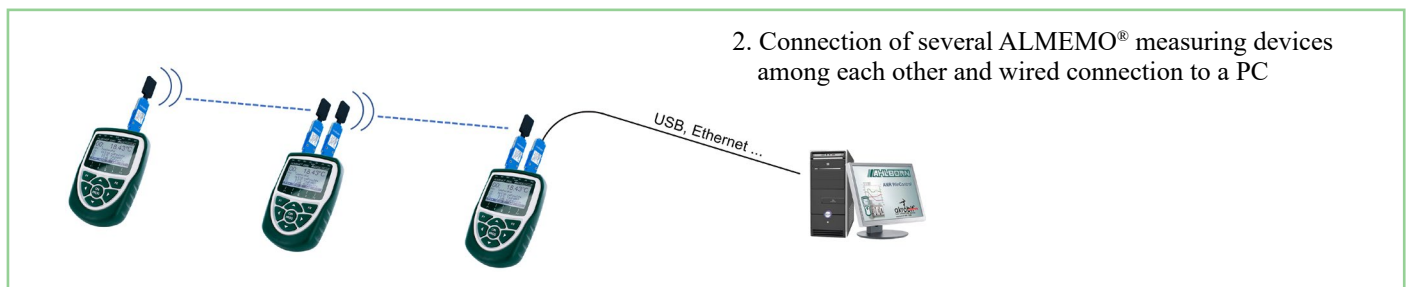


ZA1739BS



ZA1739BM

Application:



* Alternatively also possible with WLAN connection ZA1739 WL

Advantages of ALMEMO® connections with Bluetooth compared to other wireless technologies:

- The ALMEMO® Bluetooth connections are delivered paired and ready configured: Simply plug in and measure!
- The Bluetooth radio technology used (version 4.2) offers high transmission reliability.
- Due to the frequency hopping method used, a high robustness against interferences and coexisting WLAN networks is achieved. The Bluetooth partners constantly switch between the available radio channels.
- Any number of Bluetooth connections work reliably in parallel.
- There is almost no interference from coexisting WLAN networks.
- Once configured, connections are automatically (re) established when the device is switched on or when a connection is broken.
- If the Bluetooth connection to the PC is interrupted, the USB-COM interface for the WinControl data acquisition software is maintained. This results in high transmission reliability for continuous monitoring.
- On the ALMEMO® Bluetooth module there are control displays for power supply and status via LEDs.

Technical data:

Bluetooth features:	Wireless connection from a PC directly to an ALMEMO® measuring device with ALMEMO® Bluetooth module, or wireless connection between two ALMEMO® measuring devices.	Dimensions:	ZA1739BMU: approx. 110 mm x 22 mm x 8 mm ZA1739BS / ZA1739BM: approx. 102 mm x 25 mm x 8 mm
Configuration:	Factory paired and preconfigured	ALMEMO® Baud rate:	115.2 kBaud (fixed)
Standards:	Bluetooth Core Specification version 4.2	Operating conditions:	Operation: -10 °C to +50 °C
Frequency band and channels:	2.4 GHz, 3 Advertising Channels and 37 Data Channels	Type approval:	USA (FCC Part 15), Canada (IC RSS), EU (RED), Japan (MIC), China (SRRC), AU/NZS
Power supply:	Via ALMEMO® device		
Current consumption:	approx. 60 mA at 12 V supply approx. 75 mA at 9 V supply approx. 100 mA at 6 V supply		

Types

Order no.

Wireless Bluetooth PC connection for 1 ALMEMO® measuring device, paired and configured ready for operation:

ALMEMO® USB Bluetooth module (master) ZA1739BMU for the USB interface on the PC and ALMEMO® Bluetooth module (slave) ZA1739BS for the output socket A1 on the ALMEMO® device **ZA1739BPVU**

Wireless Bluetooth connection between two ALMEMO® measuring devices, paired and configured ready for operation:

ALMEMO® Bluetooth module (master) ZA1739BM for output socket A2 on the 1st ALMEMO® device and ALMEMO® Bluetooth module (slave) ZA1739BS for output socket A1 on 2nd ALMEMO® device **ZA1739BNV**

ALMEMO® Network technology

Wireless sensor connection via Bluetooth

Wireless sensor connection from a Bluetooth measuring device to a measuring input of a receiving ALMEMO® device with Bluetooth sensor module. Four measuring channels per connection can be transmitted. Any number of sensor connections in parallel is possible.



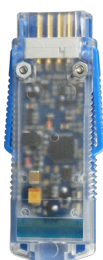
Sensor connection via Bluetooth sensor measuring device ALMEMO® 2790 with built-in Bluetooth module



MA 2790-BTFM



ALMEMO® 2790
with sensors for humidity,
temperature, atmospheric pressure
option OA 2790-RHA



ZA 1729-BTFS

- Connection of an ALMEMO® sensor to the measuring input M0 of the ALMEMO® Bluetooth device.
- Connection of the plug-in sensor module to the input socket Mxx of a receiving ALMEMO® device.

Technical features:

- 1 measuring input for all ALMEMO® sensors.
- Optional: Integrated digital sensor for humidity, temperature, atmospheric pressure. Sensors can be plugged in, replaced and individually calibrated (without any measuring instrument).
- Power supply with 3 AA rechargeable NiMH batteries, with charging via the device itself. (Please order the mains unit separately)
- Power saving sleep mode (save-to-memory cycle starting at one minute). Operating time (per charged battery) up to 200 hours with memory cycle of 1 minute, respectively 1 year with memory cycle of 1 hour.
- modern, compact housing, also for DIN rail mounting housing
- Generously dimensioned 2-row static 7 / 16 segment display including units
- Operating functions: cycle, keys can be locked via password, atmospheric pressure compensation.

Technical data MA 2790-BTFM

Measuring input:	1 ALMEMO® input socket
A/D converter, measuring ranges, standard equipment, housing:	as for ALMEMO® 2490-1, but:
Sensor supply:	6 / 9 / 12 V (depending on the programmed minimal sensor supply voltage in the ALMEMO® plug), max. 150 mA
Power supply:	5 to 13V DC not galvanically isolated.
Rechargeable battery:	3 AA rechargeable NiMH batteries, integrated charge circuitry
Current consumption:	approx. 14 mA with radio link (without sensor)
ALMEMO® socket DC:	for mains unit /interfaces
Bluetooth connection:	master module integrated

Accessories:

mains unit 12V/2A
DC adapter cable 10 to 30 V DC,
12V/0.25A galvanically isolated
DIN rail mounting

Order no.

ZA1312NA10
ZA2690UK
ZB2490HS

Option:

Integrated digital sensor for humidity, temperate, atmospheric pressure, (technical data FHAD 46-C2 see chapter Air humidity)

Order no.

OA2790RHA

Technical data ZA 1729-BTFS

Common technical data see page 117	
Power supply:	via ALMEMO® measuring instrument, approx. 25 mA (9 V)
Module housing:	ALMEMO® plug, 61 x 20 x 8 mm (LxWxH), ABS

Variants

Paired wireless sensor connection (configured and ready-to-operate) with Bluetooth sensor measuring device ALMEMO® 2790, comprising:

Bluetooth sensor measuring device ALMEMO® 2790, 1 measuring input, integrated Bluetooth, including 3 AA rechargeable NiMH batteries (MA2790BTFM), and Bluetooth sensor plug-in module (ZA1729BTFS)

Order no.

MA2790BTFV