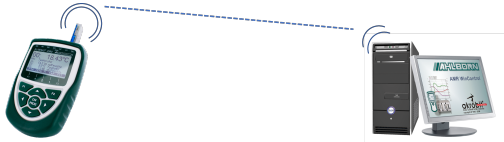# ALMEMO® Network technology

ALMEMO® wireless network with ALMEMO® WLAN module ZA 1739-WL

Wireless connection from a PC directly or via a WLAN network to an ALMEMO® measuring device with ALMEMO® WLAN module.
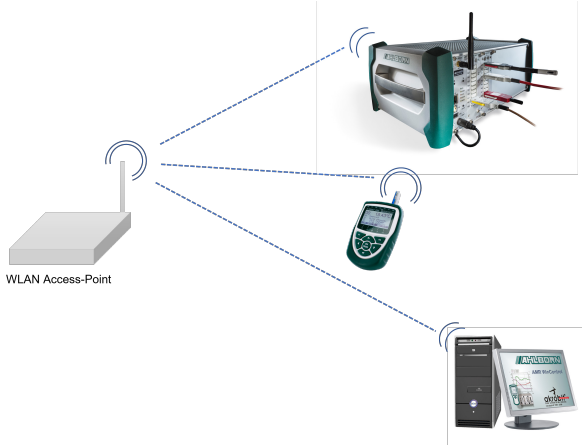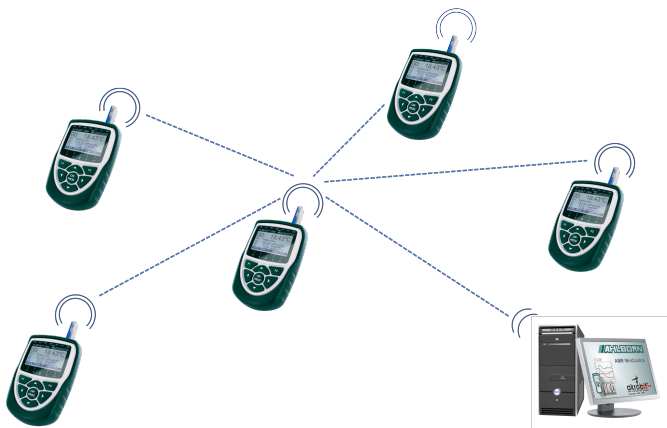
WLAN module
ZA 1739-WL

Applications:

1. Direct connection from a PC (client) to an ALMEMO® measuring device with ALMEMO® WLAN module (access point)

2. Connection of an ALMEMO® measuring device with an ALMEMO® WLAN module (client) to a WLAN network (access point in the company network)

3. Local ALMEMO® WLAN network:
   Connection of one ALMEMO® measuring device (access point) with up to 4 ALMEMO® measuring devices (clients) and direct connection to a PC (client). For this, each connected ALMEMO® measuring device requires an ALMEMO® WLAN module.

- The ALMEMO® WLAN module is a wireless data connection for ALMEMO® measuring devices for various applications:
  1. Direct connection to a PC,
  2. connection to an existing WLAN network (e.g. company network),
  3. local wireless networking of several ALMEMO® measuring devices to one PC.
- The ALMEMO® WLAN module is configured via any WLAN-capable end device of the customer using the standard browser. All common encryption modes can be configured.

- The ALMEMO® WLAN module has an integrated antenna and is compactly installed in an ALMEMO® connector. It is plugged into the A1 socket of an ALMEMO® measuring device.
- The integration into the WinControl data acquisition software and into the ALMEMO® Control software is easily done via the configured Ethernet port.
- The ALMEMO® WLAN module has control indicators (LEDs) for power supply and status and a factory reset button.

Technical data:

WLAN features:	Soft Access Point + Client Up to 5 simultaneous client connections Connection to any WLAN networks as client connection via WLAN QuickConnect	Protocol:	DHCP Client, Server (Soft Access Point), HTTP Server/Client IPv4, TCP/IP, UDP/IP, ARP, ICMP, Auto-IP, DNS SNMP v1/v2 IPv6
Configuration:	Configuration is carried out via the integrated web manager in the standard browser of a WLAN-capable end device of the customer (e.g. laptop, tablet, smartphone).	TCP port:	10001 (default)
		Baud rate:	115200 Baud
Standards:	IEEE 802.11 a/b/g/d/h/i up to 54 Mbps; 802.11 n (1x1) up to 150 Mbps IEEE 802.11 r fast roaming	Voltage supply:	Via ALMEMO® device
		Current consumption:	ca. 60 mA at 12 V supply ca. 75 mA at 9 V supply ca. 100 mA at 6 V supply
Frequency band:	Dual Band 2.4 GHz and 5 GHz, Channels 1-13, UNII-1, 2a, 2e and 3	Dimensions:	Module built into ALMEMO® connector 61 mm x 25 mm x 8 mm (L x W x D)
Encryption:	ES/CCMP and TKIP encryption, WPA/WPA2 Personal WPA2 Enterprise (EAP-TLS, EAP-TTLS, EAP-PEAP, EAP-FAST) SSLv3/TLS 1.2 with PKI and X.509 Certificates (up to 4096-bit Keys) AES Algorithm, 256-bit, 192-bit, 128-bit	ALMEMO® Baud rate:	115,2 kBaud (fixed set)
		Operating conditions:	Operation: -10 °C to +50 °C
		Type approval:	USA (FCC Part 15), Canada (IC RSS), EU (RED), Japan (MIC), China (SRRC), AU/NZS

Types   Order no.

Wireless WLAN connection for an ALMEMO® measuring device:

ALMEMO® WLAN module for output socket A1 on the ALMEMO® device.   **ZA1739WL**