Mobile communications modem ZA 1709 GPRS



- Remote interrogation and remote control of ALMEMO® devices
- Ideal for measuring operations at remote sites
- Automatic memory readout or inexpensive 24-hour online measuring - thanks to a charges structure according to actual data usage.

Technical data

Frequency range	GPRS 850 / 900 / 1800 / 1900 MHz LTE: Bands 1, 3, 8, 20 (800, 900, 1800, 2100 MHz)
Connections	RS-232 (9600 baud, 9-contact. sub-D socket) FME antenna connection (male) Power supply, SIM card reader
Power supply	10 to 30 V, via mains unit, included in delivery or via cable for external voltage
Current consumption	maximum 1.2 A at 12 V
Operating temp.	-30 to +75 °C (mains unit 0 to +40 °C)
Dimensions	65 x 74 x 33 mm
Weight	approx. 110 g
Mains unit	Input voltage 110 to 240 V AC Output voltage 10.5 to 13.5 V DC Operating temperature 0 to +40 °C

Advisory note:
For technical reasons a special data tariff and a VPN access are required; these can be arranged via „akrobit software GmbH“. Akrobit software GmbH offers various tariffs for VPN and mobile communications; depending on the tariff chosen, the Mobile communications modem can be used within Germany, within Europe, or worldwide.
A VPN client software must also be installed on the computer used for evaluation. The VPN client software is included in delivery free-of-charge. For automatic memory readout the software AMR WinControl is required together with additional module „Automatic ALMEMO® memory readout“ SW5600WCZM9.

Accessories

	Order no.
Additional protocol „Automatic memory readout“ for WinControl (SW5600WC1/2/3/4)	**SW5600WCZM9**
Power supply cable with plug to the modem and free ends for external voltage 10 to 30 V DC, minimum of 1.2 A for 12 V DC	**ZB1709EK**

Variants:

	Order no.
Mobile communications modem for connecting to ALMEMO® devices, including data cable ZA1909DK5, adapter ZA1709AS, mains unit, documentation, antenna with magnetic base, Cable approx. 2.5 meters.	**ZA1709GPRS**

Mobile router GPRS/UMTS/LTE ZA1709MFR



- Remote interrogation for several ALMEMO® devices incl. ALMEMO® 510
- Query multiple devices via WiFi (requires ZA 1739-WL)
- Cloud connection or VPN direct access via akrobit® data service

Technical data

Frequency range	GPRS: 900/1800 MHz UMTS: 850/900/2100 MHz LTE FDD: B1/B3/B5/B7/B8/B20 LTE TDD: B40 802.11b/g/n (Wi-Fi 4)
Connections	2x RJ45 (10/100Base-T), 2x SMA LTE, 1x RP-SMA WLAN, 4pin power supply, SIM card reader
Power supply	9 to 30 V, via included power supply unit or via cable for external voltage
Current consumption	< 5 W
Operating climate	-40 °C to 75 °C, 10 % to 90 % non-condensing
Dimensions	83 x 25 x 74 mm
Weight	approx. 125 g
Mains unit	Input voltage: 100 to 240 V AC, Euro connector CEE 7/16 Output voltage: 9 V 1 A DC

Advisory note:
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A VPN client software must also be installed on the computer used for evaluation. The VPN client software is included in delivery free-of-charge. For automatic memory readout the software AMR WinControl is required together with additional module „Automatic ALMEMO® memory readout“ SW5600WCZM9.

Accessories

	Order no.
Additional protocol „Automatic memory readout“ for WinControl (SW5600WC1/2/3/4)	**SW5600WCZM9**
Ethernet data cable (10/100Base-T) for ALMEMO® measuring devices for connection to mobile router	**ZA1945DK**
ALMEMO® WLAN module for connecting an ALMEMO® device to a mobile router	**ZA1739WL**
Power supply cable with plug and free ends for external voltage (9 to 30 V DC) of the mobile router	**ZB1709EK**

Variants: **Order no.**

The scope of delivery of the mobile router includes the following items:
Mobile router GPRS/UMTS/LTE
9 V 1 A DC power supply unit 100 to 240 V AC
2x LTE + 1x WiFi antenna
1x RJ45 cable approx. 1.5 m **ZA1709MFR**

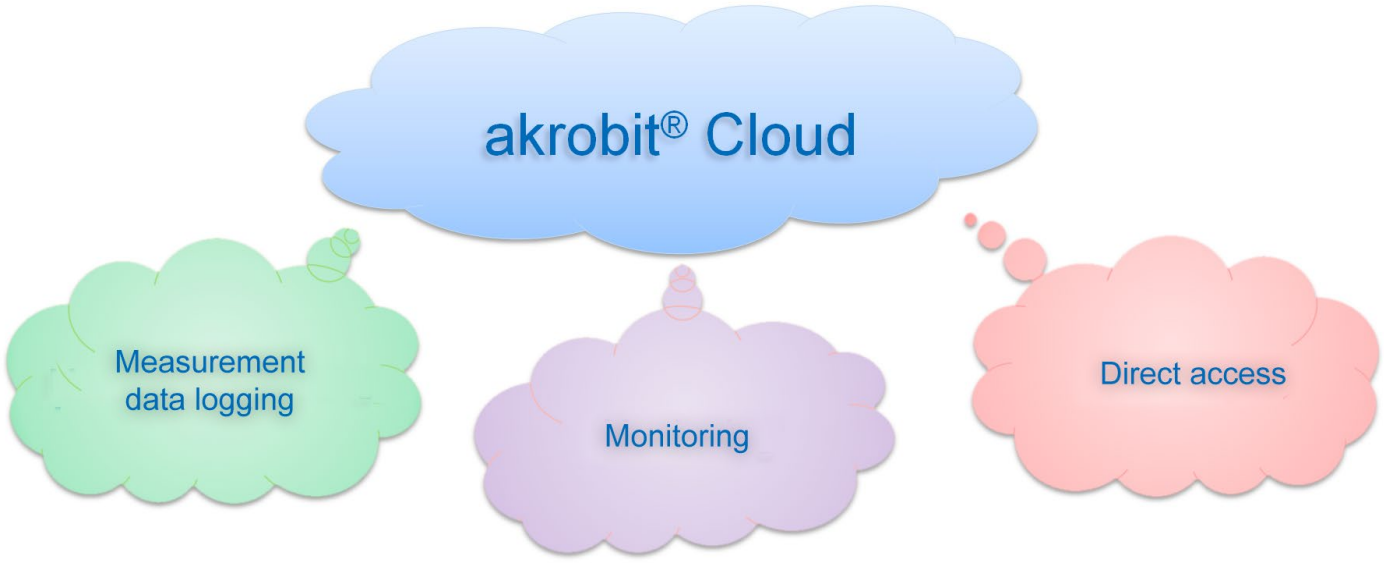
11/2025 • We reserve the right to make technical changes.

Network Technology



Mobile internet, combined with keywords such as cloud computing and web access, is a topical issue. Thanks to our solutions, you can connect your ALMEMO® measuring technology via the internet and record it centrally. It is irrelevant where the measuring technology is located. You have worldwide access to the recorded data of all the measuring devices via the browser on your PC in your office.

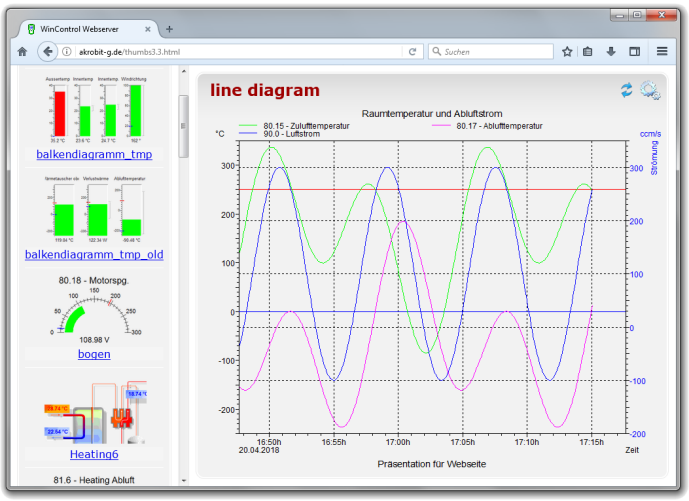
It is possible to connect via LAN, WLAN, or via mobile communications. Requirement for this setup is a corresponding data cable (ZA 1945-DK), WLAN module (ZA 1719-WL), or modem (ZA 1709GPRS), and an internet connection respectively a sufficient coverage for mobile communication on site.



The akrobit® cloud server (responsible for the acquisition of measured data) queries the data from the measuring devices, saves the data and provides the data in a variety of formats to be downloaded or sent via email. RMT WinControl is recommended to display and evaluate the data (e.g. with arithmetic channels).

In the access-protected area, current measured values and measurement processes can be viewed in a browser. It is possible to set an alarm email that is triggered by a component failure or a limit value infringement.





Alternatively, a direct connection to the measuring device is provided as well. In that case, the user himself is responsible for data acquisition, data storage and the alerting procedure. To manage this, the AMR WinControl software is recommended since this software has been specially developed for the convenient handling of ALMEMO® devices. The measuring device can be accessed via a secure VPN connection.

Cloud service	C1	C2	C3	C4	CD
Measured value files available for download (can also be sent by email)	✓	✓	✓	✓	
Online Visualization via web browser		✓		✓	
Alert in case of component failure or a limit value infringement (email)			✓	✓	
Customer can directly access the measuring device					✓
Contract with akrobit (24 month/ extension 12 month)					
Customer software (recommended)					
AMR WinControl					✓
RMT WinControl	✓	✓	✓	✓	

The cloud service is provided by the akrobit software GmbH. The actual prices depend on the number of devices and the desired services. Data acquisition via the mobile communications implies additional costs for the SIM card and for the transmitted data. The customer can either provide a suitable SIM card himself or the akrobit software GmbH can offer one. In case the modem is used outside Europe, it is mandatory that the customer himself provides the SIM card.

On request, we will be pleased to provide a demo version.

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