10/2026 • We reserve the right to make technical changes.

Mobile weather station
Digital meteorological sensor and measuring heads for radiation with ALMEMO® V7 data logger



Professional weather station for mobile use to measure all relevant meteorological parameters. Quick and easy to install, robust design, compatible with various ALMEMO® V7 data loggers.

Applications
- Building automation (heating, ventilation, shading)
- Photovoltaic monitoring
- Industrial emissions tracing
- Disaster control (tracing clouds of poisonous gas, etc.)
- Sporting events, Leisure facilities
- Agricultural trials
- Road weather information systems (RWIS)
- Icy roads warning systems
- Vehicle test circuits

The mobile weather station comprises:
- Digital meteorological sensor including mobile tripod
- Probe head for measuring optical radiation
- ALMEMO® V7 data logger choice of ALMEMO® 202-S / 204 / 710 / 809



FMD7 60



FMD7 70

Digital meteorological sensors

Digital sensor incl. 10 m sensor connection cable, connection box with power supply and 2 m ALMEMO® connection cable with ALMEMO® D7 plug.
Technical data see chapter Meteorology, Room Air Conditions.

Sensor for wind, precipitation, air temperature, Air humidity, air pressure	**FMD760**
Transducer as FMD760, but additionally for global radiation	**FMD770**
Transmitter for wind (wind direction and wind speed)	**FMD720**



FMD7 20

Mobile tripod, extendable up to approx. 4.4 meters including set of anchoring fixtures, comprising three karabiners, three guy lines (4 meters long), three ground pegs	**ZB9760ST**
Carry-bag, space for one tripod including accessories and two probe head holders	**ZB9510TT**

Probe head for measuring global radiation, illuminance, photosynthesis, and UVA, UVB and UVE radiation



Measuring head with 1.5 m ALMEMO® connection cable.
Technical data see chapter Meteorology, Room Air Conditions

Measurement of erythema-active UV radiation (UVE) up to 0.3 W/m², UV index, dose (MED, SED).	
Measuring of global radiation up to 1200 W/m²,	**FLA633GS**
Measuring of illuminance up to 170 kLux,	**FLA633VLM**
Measuring of photosynthetically active radiation up to 3000 µmol/m²s,	**FLA633PSM**
Measuring of UVA radiation up to 3 mW/cm²,	**FLA633UVA**
Measuring of UVB radiation up to 50 µW/cm²,	**FLA633UVB**
Option of probe head with longer cable Total length = 5 meters	**OA9613K05**
Probe head holder to tripod Length = approx. 0.5 meters, for one radiation probe head FLA633-GS / -VLM / -PSM / -UVA / -UVB	**ZB9510MH**

Advisory note
To connect these radiation probe heads to data logger ALMEMO® 202-S a digital ALMEMO® D7 measuring connector is required.
This variant is offered on request.



Weather-proof housing for ALMEMO® 202-S / 204 / 710 / 809 devices and meteorological sensor FMD7 60 / FMD7 70 / FMD7 20

Technical data and functions

The sensor connection cable, mains unit ZB 1024 NA2 (for heating, ventilation, and sensor supply), the junction box, and the sensor‘s ALMEMO® connection cable are all permanently fitted in the weather-proof housing. (Sensor FMD7 60 / FMD7 70 / FMD7 20 should be ordered separately.)
The ALMEMO® measuring instrument is integrated in the DIN rail mounting. The mains unit for the device supply (mains plug assembly) is plugged into the integrated socket. (The measuring instrument should be ordered separately.)

The device receives its continuous 110 / 230 V supply via the mains connection cable. Length = 2 meters (Connection is on the rear of the housing.)
When using devices ALMEMO® 202-S / 204 / 710, any short-term failures to the supply voltage are bridged; in the case of ALMEMO® 202-S / 204, this is by means of batteries and in the case of ALMEMO® 710, by means of the integrated rechargeable battery.
The ALMEMO® device cannot be operated in sleep mode.

Further variants on request:
For information on protective housing ZB9015AGU for various ALMEMO® measuring instruments performing general applications without meteorological sensor FMD7 xx.



Weather-proof housing AG2 for ALMEMO® 202-S / 204 and meteorological sensor

Weather-proof housing for ALMEMO® 202-S / 204
lockable transparent door, mast fixture
integrated rail for fastening ALMEMO® 202-S / 204 device
including mains unit ZA 1312 NA12 for supplying the device
permanently fitted sensor connection cable for sensor FMD7 xx
integrated mains unit for supplying sensor heating and sensor ventilation
Option of weather-proof housing for sensor FMD7 60 / FMD7 70 / FMD7 20
OM9760AG2

Data logger ALMEMO® 202-S / 204 with accessories

ALMEMO® 202-S professional measuring instrument 2 measuring inputs, internal measured value memory, graphics display, keypad controls, batteries	**MA202S**
ALMEMO® 204 professional measuring instrument 4 measuring inputs, internal data logger, graphics display, keypad controls, batteries	**MA204**
DIN rail holder for the measuring instrument	**ZB2490HS**
Memory connector with micro SD	**ZA1904SD**
USB data cable	**ZA1919DKU**

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Weather-proof housing AG7 for ALMEMO® 710 and meteorological sensor

Weather-proof housing for ALMEMO® 710
lockable transparent door, mast fixture
integrated rail for fastening ALMEMO® 710WG device
including mains unit ZA 1312 NA9 for supplying the device
permanently fitted sensor connection cable for sensor FMD7 xx
integrated mains unit for supplying sensor heating and sensor ventilation
Option of weather-proof housing for sensor FMD7 60 / FMD7 70 / FMD7 20
OM9760AG7

Data logger ALMEMO® 710 with accessories

ALMEMO® 710WG precision measuring instrument in wall-mounted housing
10 measuring inputs, display and operation via touch screen
internal measured value memory, integrated rechargeable battery
including mains unit (100 to 240 VAC / 12 VDC)
and USB data cable **MA710WG**

Option of external memory
Memory connector with micro SD **ZA1904SD**



Weather-proof housing AG8 for ALMEMO® 809 and meteorological sensor

Weather-proof housing for ALMEMO® 809
lockable transparent door, mast fixture
integrated rail for fastening ALMEMO® 809 device
including mains unit ZB 1212 NA12 for supplying the device
permanently fitted sensor connection cable for sensor FMD7 xx
integrated mains unit for supplying sensor heating and sensor ventilation
Option of weather-proof housing for sensor FMD7 60 / FMD7 70 / FMD7 20
OM9760AG8

Data logger ALMEMO® 809 with accessories

ALMEMO® 809 precision measuring instrument
9 measuring inputs
operation via ALMEMO® Connect software
internal measured value memory
including mains unit (100 to 240 VAC / 12 VDC) **MA809**
DIN rail holder for the measuring instrument **OA2290HS**
USB data cable **ZA1919DKU**

Option of external memory
Memory connector with micro SD **ZA1904SD**