

Mobile weather station**Meteorological sensor FMD7-60 with ALMEMO® data logger**

Universal mobile weather station for measuring a wide range of meteorological data, e.g. wind direction, wind velocity, temperature, atmospheric humidity, atmospheric pressure, rainfall quantity and intensity, and global radiation. 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
- Agricultural trials
- Road weather information systems (RWIS)
- Icy roads warning systems
- Vehicle test circuits

The mobile weather station comprises :

- Meteorological sensor FMD7-60 including mobile tripod
- Probe head for measuring optical radiation
- ALMEMO® data logger choice of ALMEMO® 202 / 710 / 809

**Digital meteorological sensor**

Sensor with built-in plug, including sensor connection cable length = 10 meters fitted in junction box, mains adapter unit (24 V) ZB 1024 NA2 fitted in junction box, ALMEMO® connection cable fitted in junction box, length = 2 meters with ALMEMO® D7 plug

FMD760

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**Further variants on request:**

Digital transducer FMD7 20
for wind velocity, wind direction

FMD720**Probe head for measuring global radiation, illuminance, photosynthesis, and UVA or UVB radiation, including probe head holder**

Probe head with cable, 1.5 meters long

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 FLA613-GS / -VLM / -PSM / -UVA / -UVB

ZB9510MH**Advisory note**

To connect these radiation probe heads to data logger ALMEMO® 202 a digital ALMEMO® D7 measuring connector is required.

This variant is offered on request.



Weather-proof housing for ALMEMO® 202 / 710 / 809 devices with meteorological sensor FMD7 60

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 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, NA9 design) 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 / 710, any short-term failures to the supply voltage are bridged; in the case of ALMEMO® 202, 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 FMD7-60.



Weather-proof housing AG2 for ALMEMO® 202 with meteorological sensor

Weather-proof housing for ALMEMO® 202,

lockable transparent door, mast fixture
integrated rail for fastening ALMEMO® 202 device
including mains unit ZA 1312 NA9 for supplying the device
permanently fitted sensor connection cable for sensor FMD7-60
integrated mains unit for supplying sensor heating and sensor ventilation
Option of weather-proof housing for sensor FMD7 60

OM9760AG2

Data logger ALMEMO® 202 with accessories

ALMEMO® 202 professional measuring instrument

2 measuring inputs, graphics display, keypad controls, batteries

MA202

DIN rail holder for the measuring instrument

ZB2490HS

Memory connector with micro SD

ZA1904SD

USB data cable

ZA1919DKU



Weather-proof housing AG7 for ALMEMO® 710 with 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 FMD7-60
integrated mains unit for supplying sensor heating and sensor ventilation
Option of weather-proof housing for sensor FMD7 60 **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 NA10 (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 with 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 NA9 for supplying the device
permanently fitted sensor connection cable for sensor FMD7-60
integrated mains unit for supplying sensor heating and sensor ventilation
Option of weather-proof housing for sensor FMD7 60 **OM9760AG8**

Data logger ALMEMO® 809 with accessories

ALMEMO® 809 precision measuring instrument
9 measuring inputs
operation via ALMEMO® Control software
internal measured value memory
including mains unit NA10 (100 to 240 VAC / 12 VDC)
DIN rail holder for the measuring instrument **MA809**
USB data cable **OA2290HS**
ZA1919DKU

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