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.

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.

Carry-bag, space for one tripod including accessories and two probe head holders.

Further variants on request:
Digital transducer FMD7 20 for wind velocity, wind direction.

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, FLA613GS
- Measuring of illuminance up to 170 kLux, FLA613VLM
- Measuring of photosynthetically active radiation up to 3000 µmol/m²s, FLA613PSM
- Measuring of UVA radiation up to 3 mW/cm², FLA613UVA
- Measuring of UVB radiation up to 50 µW/cm², FLA613UVB

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) MA809
DIN rail holder for the measuring instrument OA2290HS
USB data cable ZA1919DKU

Option of external memory
Memory connector with micro SD ZA1904SD