

METEOROLOGY

Mobile weather station



Universal mobile weather station for measuring a wide array of meteorological data, e.g. wind direction, wind velocity, relative atmospheric humidity, temperature, atmospheric pressure, rainfall quantity and intensity, and global radiation. Quick and easy to install, robust design, and various power supply options (rechargeable battery, solar cell, car adapter)

Applications :

- ▶ Vehicle test tracks
- ▶ Racing tracks
- ▶ Sporting events
- ▶ Site evaluation for wind power plants
- ▶ Mobile helicopter landing fields
- ▶ Tracing industrial emissions
- ▶ Disaster control (tracing clouds of poisonous gas, observing local weather developments)
- ▶ Agricultural trials

Mobile weather station with data logger ALMEMO® 2690-8A

Components

- ▶ ALMEMO® 2690-8A data logger (New resolution, integrated atmospheric pressure sensor and NiMH rechargeable battery pack) including connector mains unit 90 to 260 VAC.
- ▶ Weather-proof housing with lockable transparent door, Data logger mounted on DIN rail, Continuous power supply for data logger and Meteo sensor via external supply voltage
Supply 230 VAC : Integrated socket with connecting cable led out, approx. 1.7 meters, for 230 V, with safety plug
Power supply 10 to 30 VDC Two integrated banana sockets, wired to clamp terminal inside housing (cable to external mains unit / rechargeable battery - to be provided by customer) Short-term bridging in the event of power supply failure by means of internal rechargeable battery in ALMEMO® 2690-8A (New variant).
- ▶ For supply 10 to 30 V : ALMEMO® supply cable ZA2690UK, electrically insulated, for external rechargeable battery / battery 9 to 12 V, ALMEMO® supply cable ZA1012AK, not electrically insulated.



Types :

Meteo sensor for measuring wind direction, wind velocity, relative atmospheric humidity, temperature, atmospheric pressure, rainfall quantity and intensity, plus 12 meters cable, with 2 ALMEMO® plug-in connectors

Probe head for measuring global radiation, 0 to 1200 W/m², with 1.5 meters cable

Longer cable, total length 5 meters

Mobile tripod stand, extendable up to 3.5 meters, with mountable adapter for Meteo sensor FMA510, including set of guys and anchoring fixtures (comprising 3 spring-snap hooks, guy lines (4 meters), and ground pegs) Dimensions (non-extended) approx. 1.6 x 0.15 meters - weight approx. 11 kg

Holder for 1 radiation probe head FLA613GS / VLM / UVA / UVB - length approx. 0.5 meters

Carry case (with space for 1 tripod stand including accessories and up to 2 probe head holders)

Data logger set ALMEMO® 2690-8A (New variant) including connector mains unit and USB data cable

ALMEMO® memory connector, with micro SD card (at least 32 MB) including USB card reader

ALMEMO® supply cable, 10 to 30 VDC, output 12 VDC 1 A, electrically insulated

ALMEMO® supply cable, 9 to 12 VDC, not electrically insulated

Weather-proof housing with lockable transparent door, cable bushings and mast fixture, supply cable led out, approx. 1.7 meters, for 230 V, with safety plug, including ALMEMO® 2690-8 data logger installed on DIN rail (must be ordered specially)

Housing material ABS (acrylonitrile butadiene styrene), 300 x 250 x 170 mm (excluding mast fixture), weight (including measuring instrument) approx. 3.5 kg

Carry case, universal, spacious, robust Exterior dimensions (WxHxD) approx. 51 x 35 x 30 cm

Order no. FMA510

Order no. FLA613GS

Order no. OA9613K05

Order no. ZB9510ST

Order no. ZB9510MH

Order no. ZB9510TT

Order no. MA26908AKSU

Order no. ZA1904SD

Order no. ZA2690UK

Order no. ZA1012AK

Order no. ZB9015AGA

Order no. ZB5600TK3

Mobile weather station with ALMEMO® 8590-9 measuring module



Components

- ▶ Data logger ALMEMO® 8590-9 including connector mains unit 90 to 260 VAC.
- ▶ Weather-proof housing with lockable opaque door, Data logger mounted on DIN rail, Continuous power supply for data logger and Meteo sensor via external supply voltage
Supply 230 VAC : Integrated socket with connecting cable led out, approx. 1.7 meters, for 230 V, with safety plug
Power supply 10 to 30 VDC : 2 integrated banana sockets, wired to clamp connector inside housing (cable to external mains unit / rechargeable battery - to be provided by customer).
- ▶ For supply 10 to 30 V : ALMEMO® supply cable ZB3090UK, electrically insulated, for external rechargeable battery / battery 9 to 12 V, ALMEMO® supply cable ZB5090EK, not electrically insulated.
- ▶ Weather-proof housing, with solar power supply, available on request.

Types :

Meteo sensor for measuring wind direction, wind velocity , relative atmospheric humidity, temperature, atmospheric pressure,

rainfall quantity and intensity, plus 12 meters cable, with 2 ALMEMO® plug-in connectors

Probe head for measuring global radiation, 0 to 1200 W/m², with 1.5 meters cable

Longer cable, total length 5 meters

Mobile tripod stand, extendable up to 3.5 meters, with mountable adapter for Meteo sensor FMA510, including set of guys and anchoring fixtures (comprising 3 spring-snap hooks, guy lines (4 meters), and ground pegs) Dimensions (non-extended) approx. 1.6 x 0.15 meters - weight approx. 11 kg

Holder for 1 radiation probe head FLA613GS / VLM / UVA / UVB - length approx. 0.5 meters

Carry case (with space for 1 tripod stand including accessories and up to 2 probe head holders)

ALMEMO® 8590-9 measuring instrument, including connector mains unit 90 to 260 VAC

ALMEMO® memory connector, with micro SD card (at least 32 MB) including USB card reader

ALMEMO® supply cable, 10 to 30 VDC, output 12 VDC 0.2 A, electrically insulated

ALMEMO® supply cable, 9 to 12 VDC, not electrically insulated

Weather-proof housing with lockable opaque door, cable bushings and mast fixture, supply cable led out, approx. 1.7 meters, for 230 V, with safety plug, including ALMEMO® 8690-9 data logger installed on DIN rail (must be ordered specially)

Housing material ABS (acrylonitrile butadiene styrene), 300 x 250 x 170 mm (excluding mast fixture), weight (including measuring instrument) approx. 3.5 kg

Carry case, universal, spacious, robust Exterior dimensions (WxHxD) approx. 51 x 35 x 30 cm

Order no. FMA510

Order no. FLA613GS

Order no. OA9613K05

Order no. ZB9510ST

Order no. ZB9510MH

Order no. ZB9510TT

Order no. MA85909

Order no. ZA1904SD

Order no. ZB3090UK

Order no. ZB5090EK

Order no. ZB9015AGB

Order no. ZB5600TK3

01/2011 We reserve the right to make technical changes.



Mobile weather station