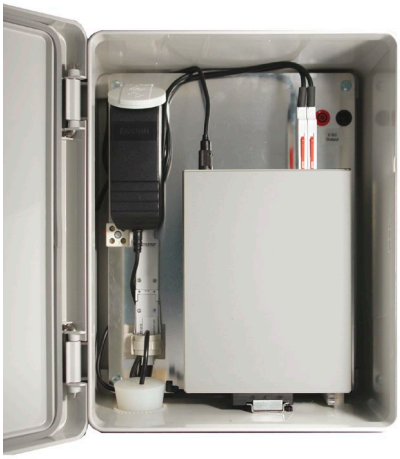
Mobile weather station with ALMEMO® 8590-9 measuring module



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	Order no.
Meteo sensor for measuring wind direction, wind velocity , relative humidity, temperature, atmospheric pressure, rainfall quantity and intensity, plus 12 meters cable, with 2 ALMEMO® plug-in connectors	**Order no. FMA510**
Probe head for measuring global radiation, 0 to 1200 W/m², with 1.5 meters cable	**FLA613GS**
Longer cable, total length 5 meters	**OA9613K05**
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	**ZB9510ST**
Holder for 1 radiation probe head FLA613GS / VLM / UVA / UVB - length approx. 0.5 meters	**ZB9510MH**
Carry case (with space for 1 tripod stand including accessories and up to 2 probe head holders)	**ZB9510TT**
ALMEMO® 8590-9 measuring instrument, including connector mains unit 90 to 260 VAC	**MA85909**
ALMEMO® memory connector, with micro SD card including USB card reader	**ZA1904SD**
ALMEMO® supply cable, 10 to 30 VDC, output 12 VDC 0.2 A, electrically insulated	**ZB3090UK**
ALMEMO® supply cable, 9 to 12 VDC, not electrically insulated	**ZB5090EK**
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® 8590-9 data logger installed on DIN rail (must be ordered separately) Housing material ABS (acrylonitrile butadiene styrene), 300 x 250 x170 mm (excluding mast fixture), weight (including measuring instrument) approx. 3.5 kg	**ZB9015AGB**
Carry case, universal, spacious, robust Exterior dimensions (WxHxD) approx. 51 x 35 x 30 cm	**ZB5600TK3**



Mobile weather station

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Wind Direction Sensor FVA 614



- Wind direction sensor for measuring the horizontal wind direction.
- Wind vane made from robust plastic, electronics in weather-resistant aluminum housing, rotating mechanism on friction bearings.
- A special labyrinth reliably protects without friction and guards against water penetrating into the housing.
- Electronically controlled heating for operation in winter conditions to prevent bearings and external rotating parts from freezing.

Technical Data

Measuring range:	0 to 360°
Accuracy:	±5°
Resolution:	11.25° (5 bit Gray code)
Measuring principle:	optoelectronically (slotted disk)
Sensor power supply:	9–30VDC through ALMEMO® device
Heating:	24VAC/DC max. 20W
Operative range:	-30 to +70 °C, with heating
Cable:	12m long, LiYCY 6 x 0.25mm²

Connection:	Adapter cable with ALMEMO® connector including supply cable for heating (length 1.5 m, free ends) A mains supply unit must be provided by the user on site.
Installation:	e.g. pole tube with holding thread PG21 / drilling 29mm Ø
Weight	1100 g

Type	Order no.
Wind vane including ALMEMO® connector (0–2V) with 12m cable	**FVA614**

Accessories for wind direction and wind velocity sensors

	Order no.
Cross-arm for separate wind direction and wind velocity sensors inclusive assembly utilitis for mast Ø 48 to 102 mm	**ZB9015TC**
Lightning protection rod	**ZB9015BS**

