AMS 159P PORTABLE METEOROLOGICAL STATION

Tel: +386 1 365 71 01
Fax: +386 1 365 71 02
Web: www.ames.si
info: info@ames.si
AMES d.o.o., Na Lazih 30
SI-1351 Brezovica, Slovenija

The AMS 159P is a small, lightweight, computerized, low power meteorological station intended for ground level measurements in even the most adverse conditions. It replaces and improves upon the previous model, the PMP 124A.

Main Features:

- Easily transportable
- Easy and quick to assemble
- Ready to work immediately after assembly
- Measures parameters important for ballistics, chemical and radiological protection, and aviation meteorology
- Integrated compass makes orientation of the mast unnecessary
- Highly accurate
- Simple to operate
- Long autonomy with the built in rechargeable battery (24+ hours)
- Internal data storage
- Data transfer to external device
- Optional wireless communications
- Suitable for militaries, coast guards, firemen, rescue workers etc.

Station compnents:

- Meteorological mast with accessories (guy-wires, pegs, carry-bag)
- Main measuring unit, the AMS 159P
- Battery charger
- VMT 107 wind sensor / anemometer
- DTE 75A air temperature sensor
- DTV 124 air temperature and humidity sensor
- Additional sensors for rain/sunshine duration, global / long wave radiation, precipitation, cloud ceiling, visibility… are available upon request.

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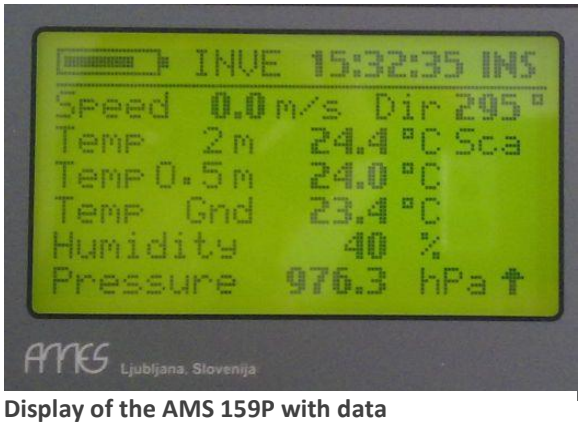
Components of the AMS 159P



Display of the AMS 159P with data

A (previous generation) PMP 124 station in use during the "Northern Light" Campaign on the Kola peninsula, Russia, 1995 (Used by the Austrian Army)

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Technical Data:

General:	
Dimensions of carrying case	550 mm x 420 mm x 160 mm
Mass of carrying case	8,8 kg

Data Logger:	
Dimensions	190mm x 160mm x 50mm
Mass	1600g
Operating temperature	-30°C to +50°C
Environmental protection	Hermetically sealed case
Data logging memory	128kB internal memory, up to 2GB on optional compact flash card
Display	Graphical LCD, illuminated
Connectors	SOURIAU, ruggedized, waterproof
Analog sensor inputs	Up to 8 analog sensors
Function keys	Sealed, with mechanical contacts
Power supply	Internal 12V battery or external source
Autonomy	24 hours
Power consumption	Less than 30mA with the standard set of sensors
Battery charging	Voltage and current limiter
Data transfer (distances)	RS232 (25m max) RS485 (5km max) Bluetooth (~100m max)
Air pressure sensor	Built in, accuracy 1hPa
RS232 default settings	Baud rate 9600 8 data bits 1 STOP bit No parity

VMT 107A Wind sensor:	
Operating temperature:	-3 °C to +50 °C
Wind speed transducer	Stroboscope, Robinson's cross
Wind direction transducer	6-bit Gray code encoder, wind vane
Type of transducers	optoelectronic
Wind speed range	0 ... 60 m/s
Wind speed constant	20 imp./m
Wind speed accuracy	+/- 0.5 m/s
Resolution of wind direction part	+/- 5.6 °
Starting threshold	0.5 m/s
Wind direction range	0° ... 360°

Meteorological mast:	
Height	Telescopic, 2m
Number of sections	2
Sensors	Temperature at 0.35m and 1.85m, relative humidity at 1.85m, wind at 2m
Cabling	Included
Orientation	Automatic with built in electronic compass

Relative Humidity:	
Sensor type	Capacitive
Measuring range	0% to 100% RH
Accuracy	+/- 5% RH

Barometric pressure:	
Measuring range	800 mb to 1050 mb
Accuracy	0.5 mb

Temperature:	
Sensor type	Thermolinear thermistor
Accuracy	+/- 0.15°C
Measuring range	-40°C to +60°C
Protection (air temp)	UV resistant radiation shields
Protection (ground temp)	Stainless steel penetrating probe

Battery Charger:	
Input voltage	220V to 240V; 50 / 60Hz AC
Output voltage:	13.8V, stabilized

Version 3

September 2016