Universal anemometer

UAM 118A

Applications

- General Metereology
- Wind Energy
- Construction sites
- Offshore Oil and Gas
- Aviation
- Sports

Features and Benefits

- Small standard dimensions
- Possibility of installation in instrument panels
- Can be used as a lightweight portable instrument
- Easy-to-read LED display
- Large selection of displayed parameters
- Adjustable display intensity
- Adjustable alarm values
- Connection to an external computer

Universal anemometer UAM118A is an autonomous computerised instrument for measuring, processing, storing and presenting the wind data.
Small standard dimensions enable easy incorporation of UAM118A in instrumentation panels or also be used as a lightweight, battery powered portable instrument.
UAM118A can accept either digital wind sensors with the frequency output for wind speed and up to 8-bit Gray code output for the wind direction, or analogue sensors with voltage or current outputs. All standard AMES optoelectronic wind sensors are suitable.
Data are indicated on a big, easy-to-read colour LED display. Adjustable intensity of display illumination enables good visibility in all light conditions from the direct sunlight to the total darkness.
Displayed data:
• numerically: real time / date, maximum wind speed in the averaging interval, instant wind speed, instant wind direction (or minimal wind speed in the averaging interval), wind speed alarm threshold, mean wind speed.
• on the graphic circular scale: instant (or alternatively mean) and variability wind direction, variability sector of wind direction;
• status data: averaging interval, data processing mode (vector or scalar), wind speed units (m/s, km/h or knots), alarm status and power status.
Built-in microcomputer enables various averaging intervals: 2minutes, 10 minutes, 30 minutes, 1 hour, or coustom preset value. Wind speed can be given in m/s, km/h or knots. Anemometer features scalar or vector wind data processing and adjustable alarm threshold. The alarm can be independent of the wind direction, or we can limit it to wind direction fom one or two sectors. The alarm is acoustic and visual, and at the same time a free-potential contact is activated to turn on external alarm devices.
Wind data are stored in the internal memory with battery backup.
UAM118A has 4 analogue outputs to connect: CENTRONICS, RS-232 and CCIT V21 modem channel.

Universal anemometer
UAM 118A

Technical specifications

Dimensions	144 mm x 144 mm x 86 mm (L x W x D)
Mass	1 kg
Mounting	instrumentation panels, hole 136 mm x 136 mm
Material	plastic
Data storage	battery supported RAM, 30 days at 30 min. averaging, 7 days at 10 min. averaging
Analogue outputs	4 channels, 0 - 5 V (optional)
Digital ports	Centronics, RS 232, RS 485
Modem channel	300 Bd, CCITT V21 or Bell 103, 2 or 4 wire
Alarm	adjustable speed, direction insensitive or in 1 or 2 direction sectors
Alarm indications	optical and acoustical
Alarm output	relay contact
Power supply	110 / 220 V, 50 Hz, 1.5 VA max., built-in battery backup alternative: external battery 12 V
Sensors	wind speed: pulse output or analog, wind direction: digital, up to 8-bit Gray code or analog
Sensor connections	direct, parallel up to 100 m or 2-wire modem connection up to 30 km
Display	LED display, adjustable intensity
Numerical data	mean value, maximum, instant value or minimum,time/date, alarm threshold: format for speed data: XX.X
Analogue data	mean or instant direction (resolution 5 degrees), wind direction variability sector (resolution 10 degrees)
Averaging intervals	2 min., 10 min., 30 min., 1 hour; adjustable
Wind speed units	m/s, km/h or knots
Averaging mode	scalar or vector
Graphical data printout	4 channel analog recording or graphical registration on dot-matrix printer
Numerical data printout	on dot-matrix printer
Connection to remote indicators	RS485 or 2-wire modem (CCITT V21 or Bell 103) up to 30 km
Communication outputs	RS232, 300 - 19200 Bd, adjustable Baud rate
Resolution	wind speed 0,1 m/s, wind direction 5°
Operating temperature	-20 to + 50 °C
Storage temperature	-50 to + 80 °C

AMES d.o.o.
Na Lazih 30
SI-1351 Brezovica
Slovenia, Europe

T: +386 1 365 70 86
F: +386 1 365 71 02
E: info@ames.si

www.ames.si