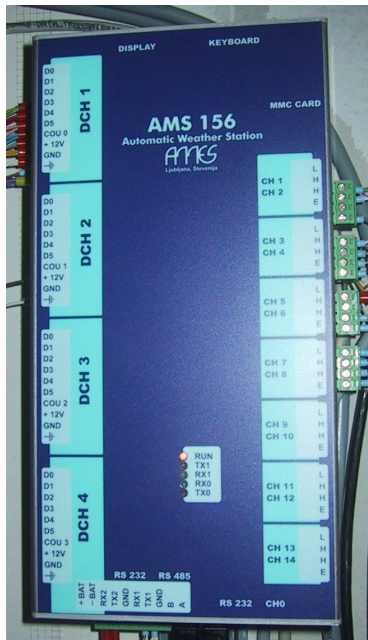


SMALL METEOROLOGICAL STATION AMS 156



Small meteorological station AMS 156 is a lightweight, computerised, low power meteorological station for ground measurements.. Electronics of the station is enclosed in a weather proof cabinet (protection IP 65). Station can accept various sensors (temperature, relative humidity, air pressure, wind, ground temperature, precipitation, leaf wetness, evaporation, etc.) It has internal data memory, which can be enlarged by FLASH EEPROM removable memory cards.

Main features of AMS 156 are:

- measures flexible set of parameters important for different meteorological studies
- high accuracy
- simple operation
- long autonomy with the built in battery
- power supply 230V AC, possible powering from the alternative sources (wind, solar panels)
- internal data storage
- serial data transfer

AMS 156 measures and calculates the following values:

- instant data
- average value (in pre-set intervals)
- maximum (in pre-set intervals)
- minimum (in pre-set intervals)
- precipitation sums
- evaporation ... e.t.c.

All parameters that control the functioning of the station can be set by the built-in menu system. They are stored in a non-volatile memory and used at each restart of the station.

At the end of each measuring interval station stores the calculated data into its memory on a FIFO principle. A separate battery supports data buffer, so data are not lost if the station is powered off. Stored data can be reviewed or transmitted to the external computer. In the internal data memory there is enough space for 720 measuring intervals. If 1-hour interval is set, that means 30 days data storage. Much longer intervals (up to several years) may be achieved by use of FLASH EEPROM memory cards. These cards can be removed from the station and used as portable data-transfer media.

TECHNICAL DATA

AMS 156 Unit

Dimensions	200 mm * 200 mm * 80 mm
Mass	1.6 kg
Operating temperature	-30 to +50 deg. C
Environmental protection	Weather protected case (IP 65)
Display	LCD, alphanumeric, illuminated, 2 rows by 24 characters
Averaging	Adjustable from 1 min to 1 hr
Function keys	Sealed, with mechanical contacts
Power supply	30 VAC, internal 12V Pb battery or external source
Autonomy	24 h
Power consumption	50 mA
Battery charging	built-in, voltage and current limiter
Data transfer	RS232, serial, adjustable Baud rate, 8 bits, 1 STOP bit, no parity (RS485 as an option)
Distances of data transfer	RS232: 15 m max, RS485: 5000 m max
Air pressure sensor	built in, accuracy 1 mB