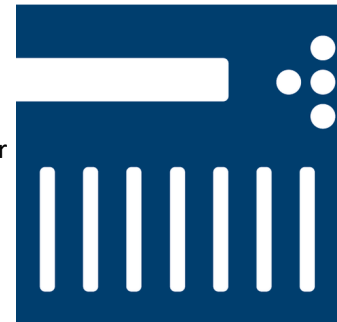# Meteo-40A plus

Meteo-40A plus Data Logger is especially designed for Automatic Weather Stations (AWS) and Solar Measurement.

Description

Convenient collection, storage and processing of weather data

Ammonit's Meteo-40A plus data logger has been designed to connect Automatic Weather Stations (AWS) in remote areas. The data logger ensures accurate and reliable measurement of the most important meteorological data such as wind speed, wind direction, temperature, humidity, as well as air pressure and solar radiation. Additional sensors, e.g., for precipitation or visibility can be connected.

Ammonit's Meteo-40A plus offers different input and output channels and can conveniently be extended by implementing additional adapters. Hence, this data logger can efficiently measure all required meteorological and environmental parameters in a campaign.

Ammonit's Meteo-40A plus is suitable for all climates and remote regions thanks to low power consumption and maintenance work.

Specifications

Meteo-40A plus			Description / Device
	Order Number	M41000	
Input Channels	Pulse Counters	2	Precipitation sensor, anemometer
	Digital Serial (Status)	4	Wind vane serial, precipitation monitor
	Analog Voltage	12 ± 0.1 V, ± 1 V, ± 10 V 16 bit	Pyranometers, air pressure sensors, temperature humidity sensors, pot. wind vane

Meteo-40A plus			Description / Device
	Analog Current	2 ± 1 mA, ± 10 mA, ± 100 mA 16 bit	Sensors with DC output, e.g., temperature humidity sensor (0 ... 20 mA)
	RS485 (M)	(1) RS485 Master	Smart weather stations, pyrano-meters
Output Channels	RS485 (S)	(1) RS485 Slave	SCADA monitoring software
	5V | Switches	4	Sensor supply, relay for modem, heating supply
	Current Source	2	Pt1000, Pt100
Connectivity	USB	(2) USB-A host (1) USB-B device	PC, modem, USB flash drive, Ethernet, WiFi, GPS, web cam
	Ethernet	(1) Ethernet	LAN, router, media converter, sat.modem, outdoor camera
Storage Size	Source Data (1-sec data)	1 GB	
	CSV Data (10-min data)	> 50 MB	
	Display & Keys	(20 x 4) LC display with backlight, five keys	
	Power Supply	9 ... 36 VDC	
	Operat. temperature	-40 ... +65 °C	
	Protection (Housing)	IP65	
	Housing Dimensions	260 x 194 x 50 mm	
	Weight	950 g	
	Accessories	External modules, plug connector, mounting kit, steel cabinet	