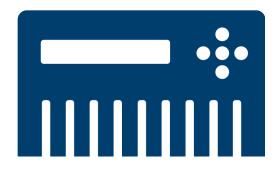


## Meteo-40A plus Data Logger

**Designed for:** 

- Automatic Weather Stations
- Solar Measurement



#### 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.

#### Various inputs and outputs for different measurement purposes

#### USB | Ethernet connection

Analog Current

for sensors with

output current

Analog Voltage

sensors, etc.

for pyranometers, air pressure sensors,

temperature humidity

USB-A ports for modem, wireless adapter or memory device USB-B port for PC; Ethernet port for Router, SAT-Modem, LAN or SCADA **Display & Keys** User-friendly menu to configure and check data logger settings

> RS485 master for smart weather stations, pyranometers RS485 slave for SCADA

**5 V | Switches** for modem and sensor heating control, etc.

**Pulse Counter** for precipitation sensors, anemometers, etc.

Digital / Serial / Status

for serial wind vanes (e.g., Thies TMR), precipitation monitor, ext. activation, etc.

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### M41000



# Meteo-40A plus Data Logger

### M41000

### **Specifications**

		Meteo-40A plus	Description / Device
Order Number		M41000	
Input Channels	Pulse Counters	2	Precipitation sensor, anemom- eter
	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
	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		(20x4) 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	

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