

Meteo-42M

M21050



Meteo-42M

Order number

M21050

Availability

Usually on stock

Meteo-42 improvements: Three RS-485 ports * Faster processors * Better grounding for more accurate analog measurements * More flexible switches.

Description

Precise, secure data for wind and solar. IEC 61400-12-1, IEC61400-50-1 and IEC 61724-1:2021 compliant.

- Easy setup on site or remotely via AmmonitConnect and AmmonitOR cloud
- Fast processor, extended memory, and 1-second data logging
- Multilingual web interface, secure IT design, large sensor library
- Three RS-485 ports, multiple I/O
- Improved grounding for accurate analog measurements
- Flexible switching for application-specific control

Reliable worldwide operation for standards-compliant measurement campaigns.

Meteo-42 Data Logger

	Type			
Meteo-42	M	L	A	Description
Input Channels				
Pulse Counters	8	12	2	Anemometers, precipitation sensors
Digital Serial (Status)	4	7	4	Wind-vane serial, precipitation monitors, external activation
Analog Voltage	8	14	14	Air-pressure, temperature, humidity sensors, potentiometric wind vanes, pyranometers, pyrheliometers
	± 0.1 V	± 0.1 V	± 0.1 V	
	± 1 V	± 1 V	± 1 V	
	± 10 V	± 10 V	± 10 V	
	16 bit	16 bit	16 bit	
RS485 (Client)	2	3	2	Ultrasonic anemometers and smart sensors Sensors with Ethernet output through Ethernet RS485 converter
Output Channels				
RS485 (S)	(1) RS485 Server			SCADA monitoring software
5 V Switches	4	8	4	Sensor supply, modem for relay, heating supply
Current Source	1	1	1	Pt1000, Pt100
Reference Voltage Source	1	1	1	5 V reference source

Meteo-42 Data Logger

Connectivity

USB	(2) USB-A host (USB 2.0 HS) (1) USB-B device (USB 2.0 HS)	PC, Modem, memory stick (USB flash drive), Wi-Fi, GPS, camera
Ethernet	(1) Ethernet	Router, satellite modem, LAN & SCADA output
SCADA	LAN (MODBUS TCP) RS485 (MODBUS RTU)	
Data transfer from Meteo-42	Email, FTP, SCP, SFTP, FTPS, USB flash copy, SCADA	
Data transfer from AmmonitOR Data	Email, FTP, SCP, SFTP, API	
Data cloud	AmmonitOR Data Cloud	or.ammonit.com – Data-cloud for campaign monitoring
Remote access to Data Logger	Ammonit Connect	<a href="https://<serialnumber>.connect.ammonit.com/">https://<serialnumber>.connect.ammonit.com/ Remote web UI access to data logger for configuration
Live data	XMPP messages (high frequency data output such as 1 second data output)	Ammonit Live Data Suite with PubSub server, server side data collection, and web app for immediate transmission and display of measurement data
Sampling interval		1 Hz (IEC 61724-1 and IEC 61400-12-1:2022 compliant)
Averaging interval		Selectable 1-minute (IEC 61724-1:2021 compliant), 5-minute, or 10-minute (IEC 61400-12-1:2022 compliant)

Storage Size

Source Data (1 s)	8 GB	enough 24-48 months
CSV Data (10 min)	0.5 GB	enough for ≥ 15 years

General

Meteo-42 Data Logger

Display & Keys (20 × 4) LC display, backlight, five keys

Power Supply 9 ... 36 V DC,
30 ... 80 mA typ.

Operat. temperature −40 ... +65 °C

Protection (Housing) IP65

Housing Dimensions 260 × 194 × 67 mm

Weight 1110 g

Accessories External modules, plug connector, mounting kit, steel cabinet



Specifications

Meteo-42M

General Information

Order Number M21050

Input Channels

Pulse Counters	8	Anemometers, precipitation sensors
Digital Serial (Status)	4	Wind vanes serial, precipitation monitors, ext. activation
Analog Voltage	$8 \pm 0.1 \text{ V}$, $\pm 1 \text{ V}$, $\pm 10 \text{ V}$, 16 bit	Air pressure, temperature, humidity sensors, pot. wind vanes, pyranometers, pyrheliometers
RS485 (Client)	2 RS485 Client Interfaces	Ultrasonic anemometers and smart sensors

Output Channels

RS485 (S)	(1) RS485 Server	SCADA monitoring software
5V Switches	4	Sensor supply, relay for modem, heating supply
Current Source	1	Pt1000, Pt100
Reference Voltage Source	1	5 Volt reference source

Connectivity

USB	(2) USB-A host (USB 2.0 High Speed), (1) USB-B device (USB 2.0 High Speed)	PC, modem, memory stick, WiFi, GPS, camera
Ethernet	(1) Ethernet	Router, satellite modem, LAN and SCADA output
Data Transfer	Email, FTP, SCP, SFTP, FTPS, data copy on USB flash drive, SCADA, API	From Meteo-42 Data Logger and from AmmonitOR Data Cloud
Data Cloud	AmmonitOR Data Cloud	https://or.ammonit.com (Data Cloud for campaign monitoring)
Remote Access to Data Logger	Ammonit Connect Remote Access	<a href="https://<serialnumber>.connect.ammonit.com/">https://<serialnumber>.connect.ammonit.com/ Remote web UI access to data logger for configuration

Meteo-42M

Live Data	XMPP messages	Ammonit Live Data Suite with PubSub server, server-side data collection, and web app for immediate transmission and display of measurement data
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Storage Size

Source Data (1-sec data)	8 GB	Enough for 12-24 months
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CSV Data (10-min data)	0.5 GB	Enough for ≤ 15 years
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Display & Keys

(20 x 4) LC display with backlight, five keys

Power Supply

9 ... 36 V DC

Operating Temperature

-40 ... +65 °C

Protection (Housing)

IP65

Housing Dimensions

260 x 194 x 67 mm

Weight

1110 g

Accessories

External modules, plug connector, mounting kit, steel cabinet

Documents

Ammonit_Meteo_42_DataLogger