

Meteo-42 Data Logger

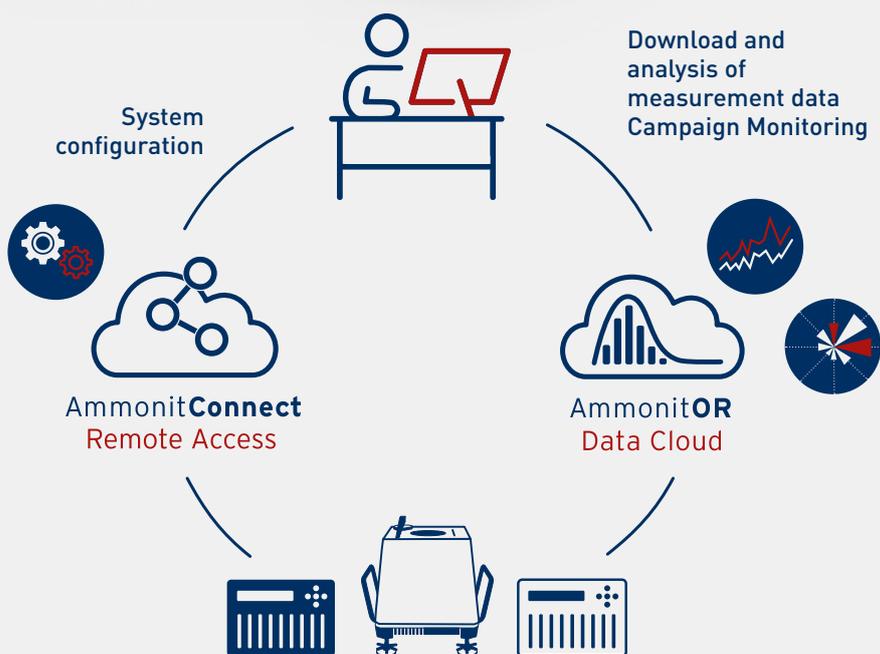


Our data logger Meteo-42 is compliant with **IEC 61400-12-1:2017** and **IEC 61400-50-1:2022** (wind) **IEC 61724-1:2021** (solar)
It features a user-friendly configuration via a multilingual web interface.

Versatile Connectivity: Meteo-42 offers a robust and secure IT architecture with multiple inputs and outputs for diverse measuring purposes.

Enhanced Sensor Integration: Meteo-42 includes a sensor library and channel overview for simplified management, and up to three RS-485 client interfaces for expanded smart sensor compatibility, supporting various protocols and baud rates.

Powerful Processing & Data Handling: A processor with up to 8 GB memory enables high-frequency data saving and sending (1-minute data), and it features an easily configurable SCADA interface.





Wind Resource Assessment



Power Performance Measurements



Wind Park Monitoring / SCADA



Wind Measurement in Cold Climate



Dynamic Line Monitoring



Solar Park Monitoring



Automatic Weather Station

		Meteo-42			Description
		M	L	A	
Input Channels	Pulse Counters	8	12	2	Anemometers, precipitation sensors
	Digital Serial (Status)	4	7	4	Wind vanes serial, precipitation monitors, ext. activation
	Analog Voltage	8 ± 0.1 V, ± 1 V, ± 10 V, 16 bit	14 ± 0.1 V, ± 1 V, ± 10 V, 16 bit	14 ± 0.1 V, ± 1 V, ± 10 V, 16 bit	Air pressure, temperature, humidity sensors, pot. wind vanes, pyranometers, pyrhemometers
	RS-485 (Client)	2 RS-485 Client	3 RS-485 Client	2 RS-485 Client	Ultrasonic anemometers and smart sensors Sensors with Ethernet output through Ethernet RS-485 converter
Output Channels	RS-485 (S)	(1) RS-485 Server			SCADA monitoring software
	5 V Switches	4	8	4	Sensor supply, relay for modem, heating supply, ventilation
	Current Source	1	1	1	Pt1000, Pt100
	Reference Voltage Source	1	1	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 (USB flash drive), WiFi, GPS, camera
	Ethernet	(1) Ethernet			Router, satellite modem, LAN and SCADA output
	SCADA	LAN (MODBUS TCP), RS-485 (MODBUS RTU)			
	Data transfer from Meteo-42	Email, FTP, SCP, SFTP, FTPS, data copy on USB flash drive, SCADA			
	Data transfer	Email, FTP, SCP, SFTP, API			
	Data cloud	AmmonitOR Data Cloud			https://or.ammonit.com , Data Cloud for campaign monitoring
	Remote access to Data Logger	AmmonitConnect			<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	
Logic controller	Email, XMPP messages			Smart control technology which triggers alarms and switch control for activation of modem / heating / ventilation	
Sampling interval	1 Hz (up to 8 Hz)			IEC 61400-12-1:2017 and IEC 1400-50-1:2022 compliant	
Averaging interval	15 averaging intervals available from 1 sec to 1 hour incl. 1 min, 5 min, 10 min.			Selectable 1-minute (IEC 61724-1:2021 compliant), 5-minute, or 10-minute (IEC 61400-12-1:2017 & IEC 61400-50-1:2022 compliant)	
Storage Size	Source Data (1-sec data)	8 GB			enough for 24–48 months
	CSV Data (10-min data)	0,5 GB			enough for ≥ 15 years
Display & Keys	(20 x 4) LC display with backlight, five keys				
Power Supply	9 ... 36 V DC, 30... 80 mA typ.				
Operat. 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				

