

RE-42A Data Logger



- Compliant with IEC 61400-12-1:2017 ed. 2 and IEC 61400-50-1:2022
- User-friendly configuration via multilingual web interface
- Secure IT architecture
- Several inputs and outputs for various measuring purposes
- Sensor library and channel overview

MORE DIGITAL INPUT CHANNELS

Up to three RS485 client interfaces

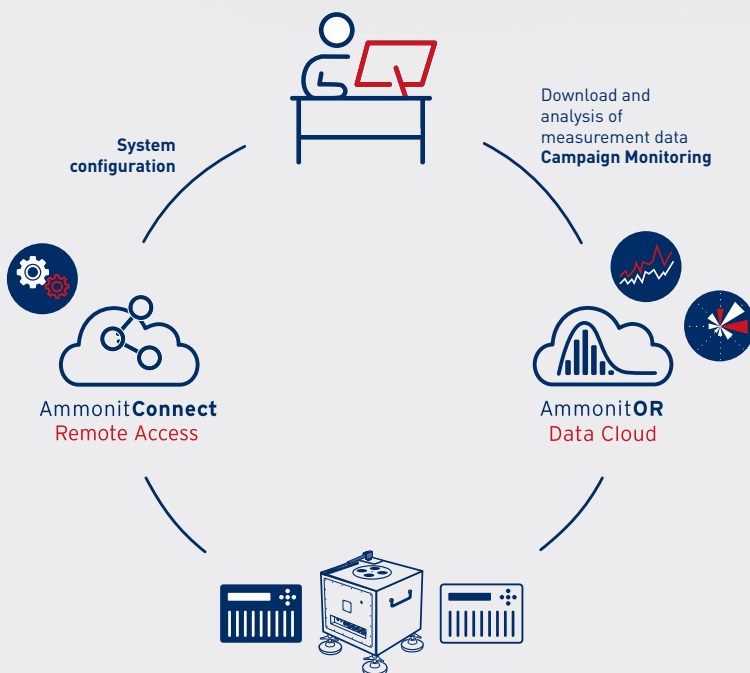
- for more smart sensors and
- sensors speaking different protocols or
- sensors working with different baudrates

NEW PROCESSOR, MORE MEMORY (2025)

- More space for 1 sec measurement data (≥ 2025)
- Faster data calculation and user interface
- Higher frequency for sensor measurement and data output

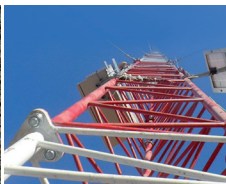
Web based interface

Features rich and compatibility with old generation





Wind Resource Assessment



Power Performance Measurements



Wind Park Monitoring / SCADA



Wind Measurement in Cold Climate



Dynamic Line Monitoring



Solar Park Monitoring



Automatic Weather Station

		RE-42A	Description
		A	
Input Channels	Pulse Counters	2	Anemometers, precipitation sensors
	Digital Serial (Status)	4	Wind vanes serial, precipitation monitors, ext. activation
	Analog Voltage/ Current Channels	14 ± 0.1 V, ± 1 V, ± 10 V, 0-20 ma 24 bit ADC	Air pressure, temperature, humidity sensors, pot. wind vanes, pyranometers, pyrhemometers
	RS485	1 RS485 Client Interface 1 RS485/RS232/SDI12	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	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 (USB flash drive), WiFi, GPS, camera
	Ethernet	(1) Ethernet	Router, SAT-Modem, LAN and SCADA output
	Data transfer	Email, FTP, SCP, SFTP, FTPS, data copy on USB flash drive, SCADA, API	
	Data cloud	AmmonitOR Data Cloud	https://or.ammonit.com Data Cloud for campaign monitoring
	Remote access to Data Logger	Ammonit Connect Remote Access to Data logger	<a href="https://<serialnumber>.connect.ammonit.com/">https://<serialnumber>.connect.ammonit.com/ SSH connection for remote access to data logger for configuration
	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
Storage Size	Source Data (1-sec data)	2 GB	enough for 6-12 months, 12 - 24 months (≥ 2025)
	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	
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	

