Meteo-40S plus

Wind and Solar Resource Assessment + Wind Farm Monitoring (SCADA) + Power Performance Measurements

Description

• Applications:

Wind Resource Assessment

Power Performance Measurements

Wind Park Monitoring / SCADA

Wind Measurement in Cold Climate

Solar Resource Assessment

Soiling Measurement

Solar Park Monitoring / SCADA

Dynamic Line Monitoring

• Compliant with IEC 61400-12-1:2017
• User-friendly configuration via protected web interface
• Various inputs and outputs for different measurement purposes

New developments:

1. LTE and 4G modems e. g., PLS8-E and many more.
2. Web Interface and Email: TLS 1.1, 1.2, and 1.3 are supported.
3. Admin user can create new users or delete them.
4. Predefined users can be deleted.
5. Less latency in SCADA systems due to faster Modbus RTU and TCP
6. Latest Linux version and newest versions of security libraries like SSL, SSH, SFTP, SCP, https, etc.

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7. Data can be sent with FTPS which makes industry standard encryption more accessible.

Specifications

Meteo-40S plus			Description / Device
	Order Number	M11020	
Input Channels	Pulse Counters	4	Anemometers, precipitation sensors
	Digital Serial (Status)	2	Wind vanes serial, precipitation monitors, ext. activation
	Analog Voltage	4 ± 0.1 V, ± 1 V, ± 10 V 16 bit	Air pressure, temperature, humidity sensors, pot. wind vanes, pyranometers, pyrheliometers
	Analog Current	1 ± 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 for up to 8 smart sensors	Ultrasonic anemometers and smart sensors
Output Channels	RS485 (S)	(1) RS485 Slave	SCADA monitoring software
	5V | Switches	2	Sensor supply, relay for modem, heating supply
	Current Source	1	Pt1000, Pt100
Connectivity	USB	(2) USB-A host (1) USB-B device	PC, modem, memory stick, WiFi, GPS, web cam
	Ethernet	(1) Ethernet	Router, SAT-Modem, LAN and SCADA output
	Data transfer	Email, FTP, SCP, SFTP, FTPS, Datacopy on USB-Stick, SCADA	
	Data cloud	SCP to AmmonitOR	https://or.ammonit.com
	Remote control	SSH reverse tunnel through AmmonitConnect Server	https://<serialnumber>.connect.ammonit.com/
Storage Size	Source Data (1-sec data)	1 GB	

Meteo-40S plus			Description / Device
	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	

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