

SM61 DATA LOGGER WITH WWW SERVER

INNOVATION 2012 AWARD



FEATURES:



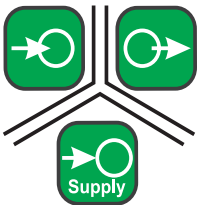
INPUTS/OUTPUTS:



or



GALVANIC ISOLATION:



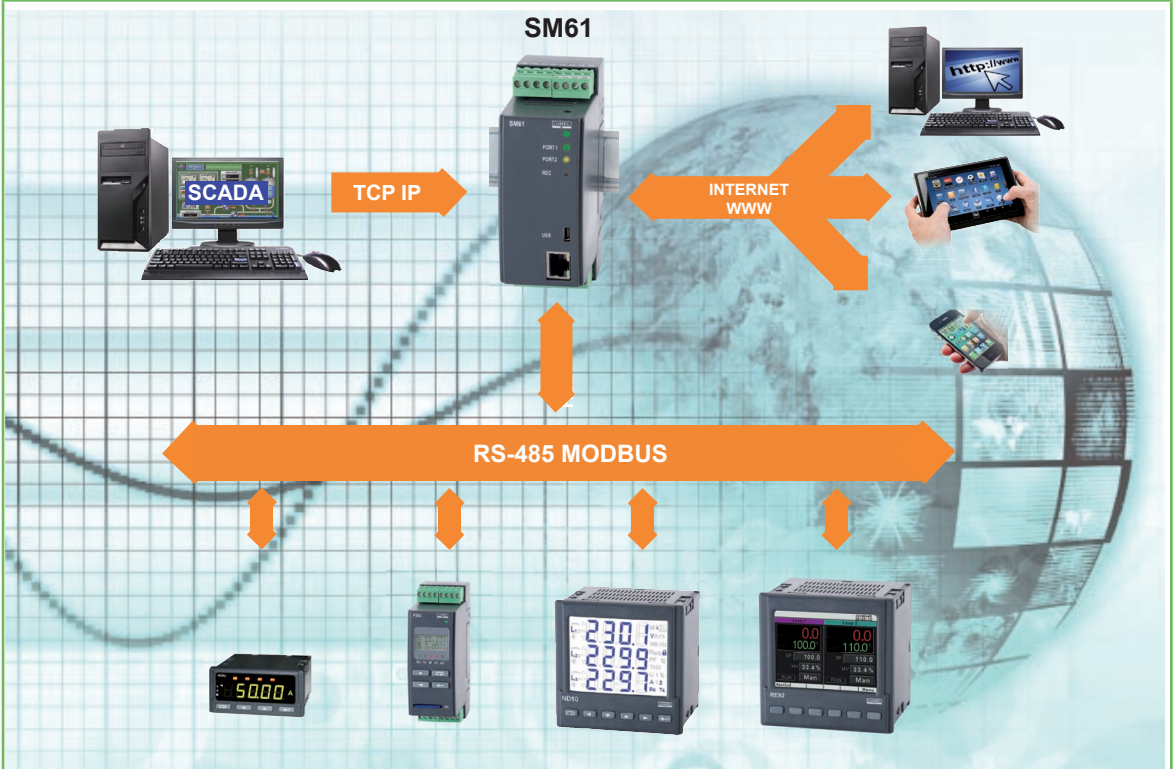
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- Visualisation of current and archived data according to customer configuration (synoptic maps, charts, tables) by any web browser.
- Readout up to 2500 values from slave devices (up to 100 devices, each 25 registers).
- User-friendly application for data configuration.
- 1 GB Flash memory.
- Built-in FTP and web servers.
- Alarms or binary inputs for control of archiving.
- RTC (real time clock).
- Possibility of simultaneously work by many users.
- User's access control by a password.

APPLICATION EXAMPLE



CONFIGURATION AND VISUALISATION BY ANY WEB BROWSER

General data

Name: SM61
IP: 10.0.17.100
Username: root
Used space: 3%

Channel values

| Channel number | Value number | Device address | Register address | Register type | Name | Value | Add to the chart | Status |
|----------------|--------------|----------------|------------------|---------------|---------|------------|--------------------------|--------------------------|
| 1 | 1 | 1 | 4000 | float4321 | Ums_1 | 5.80 V | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 | 2 | 1 | 4002 | float4321 | Ums_2 | 5.18 V | <input type="checkbox"/> | <input type="checkbox"/> |
| 1 | 1 | 1 | 4000 | float4321 | Ums_1 | 2.20 mA | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 | 2 | 1 | 4000 | float4321 | Ums_2 | 2.20 mA | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 | 1 | 1 | 4010 | float4321 | Ums_3 | 1.90 mA | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 | 1 | 1 | 4012 | float4321 | Ums_4 | 9.80 mA | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 | 1 | 1 | 4014 | float4321 | meter_1 | 206.60 kWh | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 | 1 | 1 | 4016 | float4321 | meter_2 | 10.64 kWh | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 | 1 | 1 | 4010 | float4321 | U_L1 | 229.83 V | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 | 1 | 1 | 4020 | float4321 | L_2 | 4.53 A | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 | 1 | 1 | 4014 | float4321 | U_L1 | 208.68 V | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 | 1 | 1 | 4016 | float4321 | L_2 | 10.64 A | <input type="checkbox"/> | <input type="checkbox"/> |

Chart

Configuration web:

- configuration of IP settings and connection configuration of selected SM61 module,
- channels configuration of SM61 module,
- channels visualization of SM61 module.

INTERFACE

| Interface | Port 1:RS-485, RS-232, | Port 2: RS-485 | USB | Ethernet 10/100Base-T |
|-----------------------|--|----------------------------------|---|--|
| Function | communication with PC and HMI panels and other master devices | communication with Slave devices | device configuration | device communication and configuration |
| Baud rate | 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 bit/s | | 115200 bit/s | 10, 100 Mbit/s |
| Information unit | 1 start bit, 7 or 8 data bits, 1 odd/even parity bit, 1 or 2 stop bits | | 1 start bit, 8 data bits, 1 even parity bit, 1 stop bit | TCP/UDP |
| Transmission protocol | MODBUS RTU | | | TCP/IP, HTTP, ICMP, DHCP, ARP, Modbus TCP, FTP |
| Remarks | max. cable length depends on the baud rate | | max. cable length: up to 2 m | max. cable length: up to 100 m |

EXTERNAL FEATURES

| | | | |
|-------------------------------------|-----------------------------|------------------------------|--|
| Weight | < 0.25 kg | | |
| Overall dimensions | 45 × 120 × 100 mm | | |
| Protection grade (acc. to EN 60529) | from the housing side: IP40 | from the terminal side: IP20 | |
| Fixing way | DIN rail 35 mm | | |

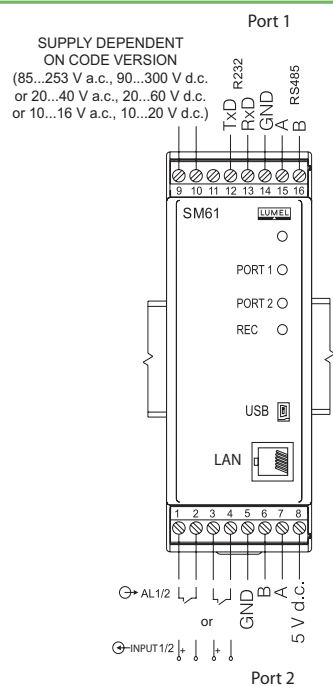
RATED OPERATING CONDITIONS

| | | |
|-------------------------|--|--|
| Supply voltage | 20...24...40 V a.c., 20...24...60 V d.c. 10...16 V a.c., 10...20 V d.c. 85...230...253 V a.c., 90...300 V d.c. | power consumption: < 4 VA 40...50/60...440 Hz |
| Temperature | ambient: 0...23...55°C | storage: -20...70°C |
| Relative humidity | ≤ 95% | condensation inadmissible |
| Operating position | any | |
| External magnetic field | < 400 A/m | |

SAFETY AND COMPATIBILITY REQUIREMENTS

| | | |
|--|----------------------------|----------------------|
| Electromagnetic compatibility | noise immunity | acc. to EN 61000-6-2 |
| | noise emissions | acc. to EN 61000-6-4 |
| Safety requirements | installation category III | acc. to EN 61010-1 |
| | pollution grade 2 | |
| Maximal phase-to-earth operating voltage | for supply circuits: 300 V | |
| | for other circuits: 50 V | |

CONNECTION DIAGRAM



ORDERING CODE

| | SM61 - | X | X | XX | X | X |
|--|--------|---|---|----|---|---|
| Supply voltage: | | | | | | |
| 85...253 V a.c., 90...300 V d.c. | | 1 | | | | |
| 20...40 V a.c., 20...60 V d.c. | | 2 | | | | |
| 10...16 V a.c., 10...20 V d.c. | | 3 | | | | |
| Input/output: | | | | | | |
| 2 relay outputs | | | 1 | | | |
| 2 binary inputs | | | | 2 | | |
| Version: | | | | | | |
| standard | | | | 00 | | |
| custom-made* | | | | XX | | |
| Language: | | | | | | |
| Polish | | | | | P | |
| English | | | | | | E |
| other* | | | | | | X |
| Acceptance tests: | | | | | | |
| without extra requirements | | | | | 0 | |
| with an extra quality inspection certificate | | | | | 1 | |
| acc. to customer's request* | | | | | | X |

* - after agreeing with the manufacturer

Order example:

The code **SM61 - 1 2 00 E 1** means the SM61 industrial www server, with voltage supply 85...253 V a.c., 90...300 V d.c., with 2 binary inputs, standard version, English language, with an extra quality inspection certificate.

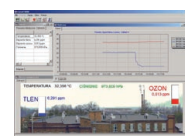
SEE ALSO:



**I/O modules
SM series**
SM1, SM2, SM3,
SM4, SM5.



**HMI panels
HMI series.**



SCADA

Lumel-Process
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INNOVATION 2012 AWARD

DYPLOM INNOWACJE 2012



Aparatura badawcza pomiarowa
i systemy sterowania
Lumel S.A.
Moduł zbierania danych
z serwerem www
TYP SM61



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