

CONFIGURATION SOFTWARE & PRODUCTS

eCON
Free configuration software for Lumel devices

- Transfer of the complete device configuration when connected to a PC via RS-485, Ethernet, USB, or the PD24 converter (USB).
- Full configuration can be saved as a file and archived on the PC for future use.
- Firmware updates for Lumel products.
- Operation possible via web browser.

NEW PD20
USB/RS-485 converter

NEW PD24
USB/RS323 (TTL) converter

- The converter is designed for data transmission between a computer and a device equipped with an RS-232 interface and TTL voltage levels.
- It also serves as a programming tool for LUMEL products, allowing parameter configuration using the free eCon software.

SCADA VISUALISATION SOFTWARE

PROMOTIC
Perpetual license – includes free upgrades for 10 years!

PowerVis | OP40
For the visualization, monitoring, archiving, and reporting of electrical network parameters.

Example applications:

- Energy consumption – measurement and control (electricity, heat, gas, water, etc.).
- Technology control in the food industry (breweries, dairies, sugar refineries, oil mills, flour mills, etc.).
- Environmental technologies (emission monitoring, separator control, dust extraction, etc.).
- Telemetry and control systems (water and gas supply, mining, heat distribution).
- Heat supply systems (heat exchanger stations, boiler rooms, etc.).

Additional applications based on customer requirements.

Compatible with Lumel power network meters and third-party meters that support the Modbus TCP/IP protocol.

SMP RADIATION MONITOR SYSTEMS

GAMMA-NEUTRON radiation monitors

GAMMA radiation monitors

- Automatic radiometric control without interference with traffic.
- High sensitivity.
- Report and alarm signal generation.
- Speed control.
- Interactive control panel with an 8.3" touch screen.
- Bi-directional communication enabling:
 - Remote control of the SMP.
 - Remote adjustment of selected parameter settings.

PM SMP-STUDIO Remote Supervisory Control System

- Remote status visualization of SMP-RPM devices.
- Automatic time synchronization of SMP devices.
- Monitoring of up to 32 surveillance zones.
- Communication with monitored SMP devices via LAN or WAN networks.

Operation within the dedicated Remote Supervisory Control System – SMP-Studio.
Video recording (supervised via SMP-Studio).

OEM | ODM | EMS SERVICES

CONTRACT ELECTRONICS MANUFACTURING SERVICES (EMS)
– from prototypes to small, medium, and high-volume production.

COMPREHENSIVE PROJECT EXECUTION (OEM, ODM)
– including prototypes, as well as small, medium, and large production series:
• Enclosure design and manufacturing.
• Research and Development (R&D).
• Component sourcing and procurement.
• SMT and THT assembly.
• Device programming and calibration

SMT ASSEMBLY:

- Single- and double-sided SMD assembly using reflow soldering technology, compliant with the European RoHS directive.
- Assembly can be carried out using either in-house or customer-supplied components.

LABORATORY SERVICES

- Calibration.**
- Device testing:**
 - electromagnetic noise immunity according to EN 61000-6-2,
 - emission of electromagnetic interference according to EN 61000-6-4,
 - safety (including safety according to EN 61010-1),
 - ambient conditions,
 - environmental conditions,
 - vibrations and impacts conditions,
 - transport conditions,
 - measurement accuracy,
 - thermal imaging (thermographic testing),
 - checking class of current transformer.

4 high-performance assembly lines with a placement capacity of over 295,000 components per hour

THT ASSEMBLY:

- Preparation of elements, automatic processing - cutting and bending.
- Placement of elements - manual assembly and soldering.
- Assembly of elements on a solder wave.
- Cable processing.

ADDITIONAL SERVICES:

- Designing.
- Additional tests.
- Protecting coats.
- Labeling.
- Package designing.

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OEM | ODM | EMS

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LABORATORY

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ONLINE CATALOG

SCAN ME!

PRODUCT GUIDE



INDUSTRIAL AUTOMATION

AWARDS 2024/2025



POWER METERS

3-phase / RS-485 Modbus Slave					3-phase RS-485 Modbus Slave																							
Ethernet					Ethernet																							
Modbus TCP/IP					Profinet						BACnet IP						MQTT						Ethernet BACnet IP					

POWER QUALITY METERS & ANALYZERS

3-phase / RS-485 Modbus Slave																													
Ethernet																													
Ethernet Daisy Chain 2x RJ45																													
Modbus TCP/IP										Modbus TCP/IP										Modbus TCP/IP IEC 104, GPS									

ENERGY METERS FOR DIN RAIL MOUNTING WITH MID CERTIFICATE

1-PHASE

100 mA (RJ12) 230 V			1A/ 5A 230 V			5(100)A 230 V		
Modbus RTU (RS-485)			Modbus RTU (RS-485)			Modbus RTU (RS-485)		
M-Bus			M-Bus			M-Bus		

100 mA (RJ12) 230 V			5(45)A 230 V			1A/ 5A 230 V		
Modbus RTU (RS-485)			Modbus RTU (RS-485)			Modbus RTU (RS-485)		
M-Bus			M-Bus			M-Bus		

3-PHASE

1A/ 5A 3x 230 / 400 V		10 (100)A 3x 230 / 400 V		100 mA (RJ12) 3x 230 V / 400 V		1A/ 5A 3x 230 V / 400 V		5 (100) A 3x 230 / 400 V			
Modbus RTU (RS-485)				Modbus RTU (RS-485)				Modbus RTU (RS-485)			
M-Bus				M-Bus				M-Bus			

ENERGY METERS FOR DIN RAIL MOUNTING FOR APPLICATIONS NOT REQUIRING MID COMPLIANCE

1-PHASE				3-PHASE			
5(45)A 230 V		5(100)A 230 V		1A / 5A 3x 57.5...346.42 V / 100...600 V		5 (100) A 3x 100...289 V / 173...500 V	
Modbus RTU (RS-485)							

SYNCHRONIZATION METERS

RS-485 Modbus, Ethernet Modbus TCP/IP	dual ranges 57...500 V

PF CONTROLLER

4, 6 or 8 relays RS-485 Modbus

PROTECTION RELAYS MV/ LV

Digital protection relay for MV switchgears with additional inputs and outputs and communication ports	Automatic transfer switch (ATS) for MV switchgears	Integrated MV/LV protection and control relay for EPV switchgears and other renewable energy sources	DOWNLOAD FILE

PHOTOVOLTAIC STRING INVERTERS

10 YEARS WARRANTY PVSA Photovoltaic string inverter • ON-GIRD • Available in power classes from 10 to 50kW. • RS-485, Ethernet*, GSM* *Remote monitoring via: the optional SM611IoT module or built-in GSM module.	10 YEARS WARRANTY NEO Photovoltaic string inverter • ON-GIRD • Available in power classes: 3 kW, 4 kW, 5 kW, 6 kW, 8 kW, 10 kW, 12 kW, 15 kW, 20 kW. • RS-485, Ethernet, WiFi, USB port. • Ingress protection IP66.

DIGITAL METERS

fixed input U/I/ temperature/ a.c. signals/ d.c. signals										universal d.c. temp.		fixed input		universal/ RS-485 Modbus Slave						LED/ universal/ Slave			
RS-485 Modbus Slave										vertical display		a.c. phase indicator		21-point rescaling		32-point rescaling						d.c.	

TRANSDUCERS | SEPARATORS

fixed		universal		fixed		fixed/ RS-485 Modbus Slave		fixed		separators		universal		a.c. fixed/ RS-485 Modbus					
d.c.		a.c.		d.c.		a.c.		d.c.		2x output		d.c.		d.c.		21-point rescaling			
universal/ fixed/ Ethernet/ RS-485 Modbus																			

TEMPERATURE & HUMIDITY TRANSDUCERS

RS-485			

MONITORS & DATA LOGGERS FOR MEASUREMENTS OF ENVIRONMENTAL PARAMETERS

Ethernet + PoE		Ethernet + PoE
MQTT		

TEMPERATURE SENSORS

Pt100 / Pt500 / Pt1000 Ni100 / Ni1000
type: T / J / K / N / S / R / B

TEMPERATURE CONTROLLERS & LIMITERS

universal			fixed input		universal/ RS-485 Modbus		dual loop/ Ethernet/ RS-485 Master & Slave		fixed input		universal/ RS-485 Modbus	
RS-485											limiter/programmable/ RS-485	

POWER CONTROLLERS

1-phase		3-phase	

RECORDERS

up to 4 channels		up to 12 channels		up to 2500 registers		up to 60 channels (96x96x7mm)	
Ethernet		MQTT		RS-485 Modbus Master or Slave, Ethernet, MQTT		RS-485 Modbus Master & Slave, Ethernet	
24-channel		6-channel		18-channel		RS-485 Modbus Master or Slave, Ethernet	

DATA LOGGER

up to 2500 registers
RS-485 Modbus Master or Slave, Ethernet, MQTT

I/O MODULES, COMMUNICATION MODULES

2-channel fixed	4-channel fixed	2-channel programmable in.	8-channel fixed input	4/8-channel fixed output	4 programmable in./ 2x Modbus	4 fixed out./ 2x Modbus

INTERFACE/ PROTOCOL CONVERTERS

RS-485		RS-485	
Ethernet		Wi-Fi, Ethernet	
RS-232		USB	

TIME & PROTECTION RELAYS

multifunction time relay	voltage protection relay
10 functions	U _{min} / U _{max}

PORTABLE MULTIMETERS & CLAMP METERS

power quality analyzer			digital multimeters						clamp meters			5 in 1 digital multimeter		pocket size digital multimeter	clamp meter	Auto Scan range digital multimeter

PORTABLE MULTIMETERS & CLAMP METERS

digital clamp meters			pen R/C meter for SMD	Volt/ mA calibrator	voltage/current/ thermocouple calibrator			thermocouple calibrator	temperature/ humidity & dew point meter		luxmeter with sensor rotation	pyrometer	dual ways thermocouple meter	multimeter with Touch-Pad

ANALOG METERS

• AC • DC • POWER METERS • BIMETALIC METERS • FREQUENCY METERS • POWER FACTOR METERS
• dimensions: 48 / 72 / 96 / 144 mm • scale: 90° and 240° • DUAL MOVING-IRON • CUSTOMER LOGO

SHUNTS

20MV / 30MV / 50MV / 60MV / 75MV / 150MV / 300MV
Measuring ranges 1A-15kA
class 0.2 1A-2.5 kA
class 0.5 1A-25 kA
DIN 43703 / EN60051
• insulating base as an option (up to 150A) • varnishing or silvering on request • Tailored solutions available on demand (Customer-specific modifications / class 0.2 up to 8kA)

LOW-VOLTAGE CURRENT TRANSFORMERS

class 0.2s / 0.2 / 0.5s / 0.5 / 1 / 3 1A up to 7500A	• FOR BUSBAR OR ROUND CONDUCTOR • SPLIT CORE • SUMMATION • RESIN CAST • ROUND	Current transformer dedicated to the ND20CT L12 1-phase 50-250 A L125, L135, L145 3-phase 60-600 A L306, L307, L308 3-phase 63-250 A
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CAM SWITCHES

changeover/ multi-step/ isolator/ selector switch	ON-OFF	spring return cam switches 1xNO 1xNC / spring return cam switches 2xNO 2xNC		

POWER SUPPLIES

24V/0.63 A	24V/1.5 A	24V/1.75 A	24V/2.5 A	24V/5 A	24V/7.5 A
15 W	36 W	45 W	60 W	95...120 W	120...180 W

ADAPTERS

Designed for mounting of panel instruments on the DIN rail I335. 96 x 96 / 96 x 48 / 72 x 72 / 48 x 96 / 48 x 48 mm	Designed to reduce the mounting hole from 96 x 96 mm to 48 x 96 mm or 96 x 48 mm.