

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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AUTOMATION SYSTEMS

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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					Ethernet										
Modbus TCP/IP			Profinet			BACnet IP			MQTT			Modbus TCP/IP			Ethernet BACnet 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)			M-Bus			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)			M-Bus			Modbus RTU (RS-485)		
M-Bus			M-Bus			M-Bus		

3-PHASE

1A/ 5A 3x 230 / 400 V		10 (100)A 3x 230 V / 400 V		100 mA (RJ12) 3x 230 V / 400 V		1A/ 5A 3x 230 V / 400 V		5 (100) A 3x 230 V / 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 3x 100...289 V / 173...500 V	
230 V		1A / 5A 3x 57.5...346.42 V / 100...600 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

MV/LV BAY CONTROLLERS

Designed for protection, control, measurement, recording, and supervision of medium-voltage switchgear bays in power distribution systems	Designed for protection, control, measurement, recording, and supervision of medium-voltage switchgear bays in power distribution systems with an automatic transfer switch (ATS) for MV switchgear	Designed for switchgear operating at the connection points of photovoltaic plants to the MV or LV distribution networks, as well as for the micro-installations.	Designed for switchgear operating at the connection points of photovoltaic plants to the MV or LV distribution networks, as well as for the micro-installations.

MV/LV BAY CONTROLLERS

Designed for feeder and outgoing bays in medium-voltage power networks	Download file

PHOTOVOLTAIC STRING INVERTERS

NEO Photovoltaic string inverter
<ul style="list-style-type: none"> ON-GRID 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 / V / 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	fixed	fixed	fixed	fixed	separators	separators	separators	universal	universal	universal / fixed	universal / fixed	universal / fixed	universal / fixed	
d.c.	a.c.	d.c.	a.c.	a.c.	a.c./d.c.	a.c.	d.c.	2x output	d.c.	d.c.	d.c.	a.c.	a.c.	a.c. fixed / RS-485 Modbus	a.c. fixed / RS-485 Modbus	a.c. fixed / RS-485 Modbus	a.c. fixed / RS-485 Modbus	
21-point rescaling																	d.c. CANopen	

TEMPERATURE & HUMIDITY TRANSDUCERS

RS-485			

MONITORS & DATA LOGGERS FOR MEASUREMENTS OF ENVIRONMENTAL PARAMETERS

Ethernet + PoE		
MQTT		

TEMPERATURE SENSORS

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

TEMPERATURE CONTROLLERS & LIMITERS

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

<ul style="list-style-type: none"> AC DC POWER METERS BIMETALIC METERS FREQUENCY METERS POWER FACTOR METERS
<ul style="list-style-type: none"> dimensions: 48 / 72 / 96 / 144 mm scale: 90° and 240° DUAL MOVING-IRON CUSTOMER LOGO

SHUNTS

Measuring ranges 1A-15kA	class 0.2	1A-2.5 kA	DIN 43703 / EN60051
	class 0.5	1A-25 kA	
	<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> FOR BUSBAR OR ROUND CONDUCTOR SPLIT CORE SUMMATION RESIN CAST ROUND 	<ul style="list-style-type: none"> 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

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 TS35.	Designed to reduce the mounting hole from 96 x 96 mm to 48 x 96 mm or 96 x 48 mm.
96 x 96 / 96 x 48 / 72 x 72 / 48 x 96 / 48 x 48 mm	