

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!

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.

PROMOTIC

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

- 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.

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

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.

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.
- Assembly of elements on a solder wave.
- Placement of elements - manual assembly and soldering.
- Cable processing.

ADDITIONAL SERVICES:

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

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PRODUCT GUIDE

INDUSTRIAL AUTOMATION



ONLINE CATALOG

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AWARDS

2024/2025



LUMEL

POWER METERS

N43	NR30	NR30PNET	NR30BAC	NR30IoT	N14	ND10	ND20LITE	ND20	ND20CT	ND25
3-phase / RS-485 Modbus Slave					3-phase RS-485 Modbus Slave					
Ethernet										Ethernet BACnet IP
Modbus TCP/IP										

POWER QUALITY METERS & ANALYZERS

ND30	ND30PNET	ND30BAC	ND30IoT	ND31LITE	ND31	ND31PLUS	N100	ND45	ND45PLUS
3-phase / RS-485 Modbus Slave									
Ethernet					Ethernet				
Modbus TCP/IP					Ethernet Daisy Chain 2x RJ45				
Modbus TCP/IP					Modbus TCP/IP				
Profinet					BACnet IP, MQTT				
BACnet IP					IEC 104, GPS				
MQTT									

ENERGY METERS FOR DIN RAIL MOUNTING
WITH MID CERTIFICATE

1-PHASE

NMID08LITE	NMID08	NMID08MBUS	NMID09LITE	NMID09	NMID09MBUS	NMID10LITE	NMID10	NMID10MBUS
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		

NMID11LITE	NMID11	NMID11MBUS	NMID12LITE	NMID12	NMID12MBUS	NMID13LITE	NMID13	NMID13MBUS
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

NMID30-1V1	NMID30-2V2	NMID31LITE	NMID31	NMID31MBUS	NMID32LITE	NMID32	NMID32MBUS	NMID33LITE	NMID33	NMID33MBUS
1x 5 A 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)			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	
NR12	NR10PLUS	NR32	NR33
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

NSS	SA12/SA19
RS-485 Modbus, Ethernet Modbus TCP/IP	dual ranges 57...500 V

PF
CONTROLLER

NF20
4, 6 or 8 relays RS-485 Modbus

PROTECTION RELAYS MV/ LV

extCZIP-PRO	extCZIP-2R-PRO	extCZIP-PV-PRO	PROTECTION AUTOMATION & CONTROL CATALOG
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	

PHOTOVOLTAIC STRING INVERTERS

PVSA Photovoltaic string inverter	NEO Photovoltaic string inverter
• ON-GIRD • Available in power classes from 10 to 50kW. • RS-485, Ethernet*, GSM* • *Remote monitoring via: the optional SM61IoT module or built-in GSM module.	• 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

N24	N25	N192	N20	N20Plus	N20HPlus	N20Z	N20ZPlus	N21	N27D	LLM3	N30U	N30o	N30H	N30P	N31U	N32U	N32o	N32H	N32P	N27P	NA5Plus/NA6Plus				
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			-		RS-485 Modbus Slave		vertical display		a.c.		phase indicator		21-point rescaling		-		32-point rescaling		-		d.c.	

TRANSDUCERS | SEPARATORS

P10	P10Z	P20	P20Z	T22CT	T23CT	P21Z	P20H	P15	P17	P20G	P17G	P41	P43	P30U	P30o	P30H	P30P
fixed		universal		fixed		fixed/ RS-485 Modbus Slave		fixed		separators		universal		universal/ fixed/ Ethernet/ RS-485 Modbus			
d.c.		a.c.		d.c.		a.c.		d.c.		2x output		d.c.		a.c.		a.c. fixed/ RS-485 Modbus	
														21-point rescaling		d.c. CANopen	

TEMPERATURE & HUMIDITY
TRANSDUCERS

P18L	P18	P18D	P18S
RS-485			

MONITORS & DATA LOGGERS
FOR MEASUREMENTS OF ENVIRONMENTAL PARAMETERS

HT20	HT20IoT	HT22IoT
Ethernet + PoE		Ethernet + PoE

TEMPERATURE
SENSORS

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

TEMPERATURE CONTROLLERS & LIMITERS

RE11	RE12S	RE22	RE71	RE81	RE72	RE82	RE92	RE55	RE60	RE62	RE01	RL10
universal			fixed input		universal/ RS-485 Modbus		dual loop/ Ethernet/ RS-485 Master & Slave	fixed input		universal/ RS-485 Modbus		limiter/program- mable/ RS-485
- RS-485												

POWER CONTROLLERS

RP7	RP1	RPL1	RP3
1-phase		3-phase	

RECORDERS

HT20	HT20IoT	HT22IoT	SM61IoT	KD6	KD7	KD8	KD10
up to 4 channels		up to 12 channels	up to 2500 registers	up to 60 channels (96x96x7mm)	24-channel	6-channel	18-channel
Ethernet		MQTT	RS-485 Modbus Master or Slave, Ethernet, MQTT	RS-485 Modbus Master & Slave, Ethernet	RS-485 Modbus Slave	RS-485 Modbus Master or Slave, Ethernet	

DATA LOGGER

SM61IoT
up to 2500 registers RS-485 Modbus Master or Slave, Ethernet, MQTT

I/O MODULES, COMMUNICATION MODULES

SM1	SM2	SM3	SM5	SM4	S4AI	S4AO
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

PD51	PD9	PD9W	PD20
RS-232	RS-485	Wi-Fi, Ethernet	USB

TIME & PROTECTION
RELAYS

LTR10	LP10-V
multifunctional time relay 10 functions	voltage protection relay U _{min} / U _{max}

PORTABLE MULTIMETERS & CLAMP METERS

NP45	NP15	NP15B	NP10	NP06	NP08	NC14	NC12	NC11	NT10	VA19	MS8221A	M266C	VA28B
power quality analyzer	digital multimeters					clamp meters				insulation meter	5 in 1 digital multimeter	pocket size digital multimeter	Auto Scan range digital multimeter

PORTABLE MULTIMETERS & CLAMP METERS

VA310	VA312	VA333	VA503	VA700	VA701	VA702	VA710	VA8010	VA8051	VA8090	VA8060	VA90B
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 • BIMETALLIC METERS • FREQUENCY METERS • POWER FACTOR METES	• dimensions: 48 / 72 / 96 / 144 mm • scale: 90° and 240° • DUAL MOVING-IRON • CUSTOMER LOGO
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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
			LJ12 1-phase 50-250 A
			LJ25, LJ35, LJ45 3-phase 60-600 A
			LJ306, LJ307, LJ308 3-phase 63-250 A

CAM SWITCHES

PKT / PKS / PKH	PKR	TKR
changeover/ multi-step/ Isolator/ selector switch	ON-OFF	spring return cam switches 1xNO 1xNC/ spring return cam switches 2xNO 2xNC

POWER SUPPLIES