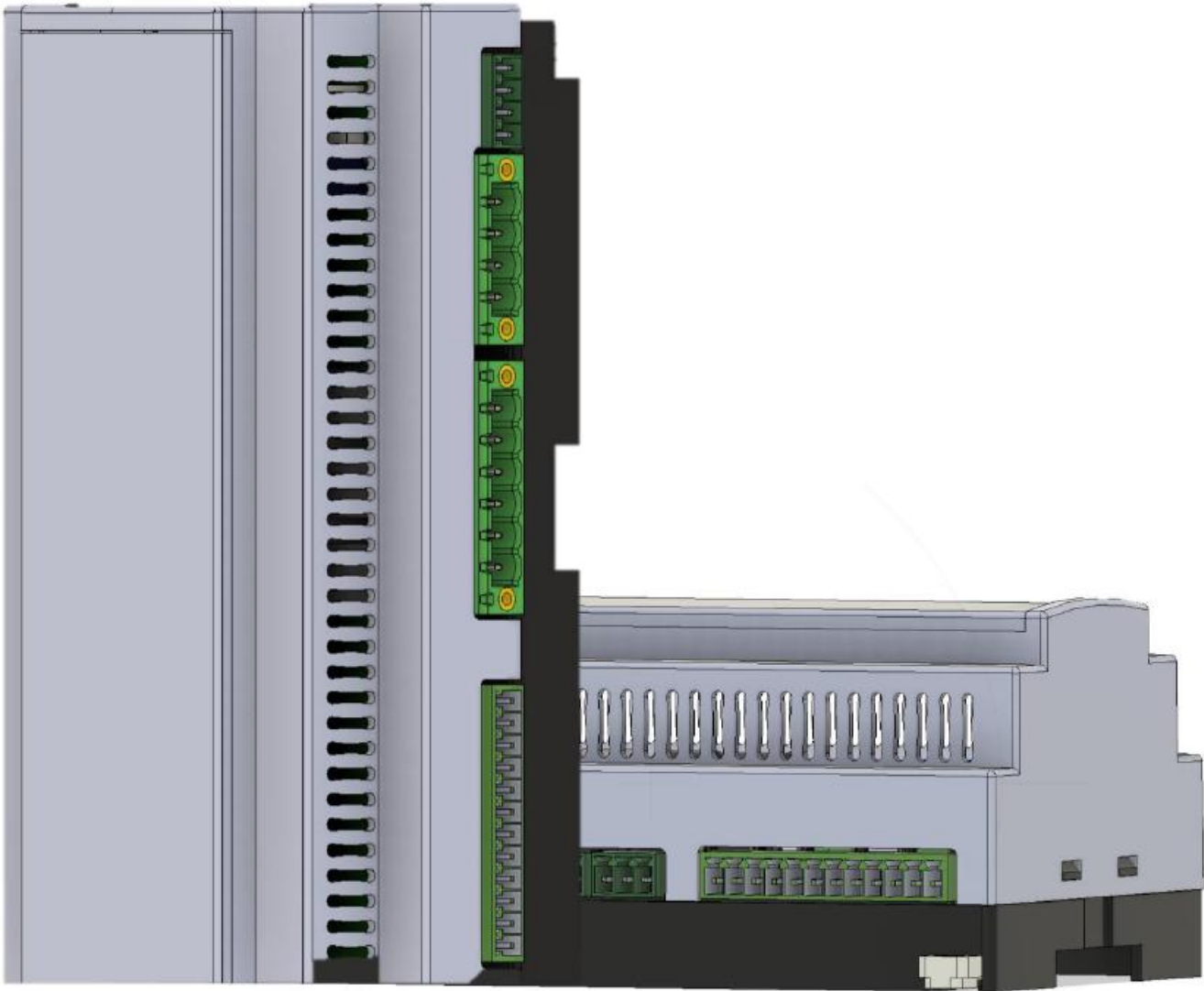


SPAIKON RAM-2



FEATURES

PHYSICAL SPECIFICATION

Housing dimensions (W × H × D)	158 × 92 × 59 mm
Housing type	DIN rail housing for TH35 according to DIN EN 60715
Housing material	Polycarbonate
Weight Approx.	650 g

POWER

Input voltage	12 ... 24 V DC (-15 % / +20 %)
Power consumption	< 16 W Max.

ANALOG INPUTS

Input channels	6
Voltage measuring ranges	0 ... 10 V DC
Current input ranges	0 ... 20 mA 4 ... 20 mA
Galvanic isolation	Inputs to each other: yes
Input resolution in process image	Voltage 1 mV Current 1 µA
Max. overall input error (at 25 °C ambient temperature)	Voltage ±10 mV (±5 mV at 0 ... 10 V) Current ±20 µA (±24 µA at 0 ... 20 mA)

DIGITAL INPUTS

Input channels	6
Input type	Sink/Source
Input thresholds	0...5 V detected as logic low, 15...30 V detected as logic high
Digital debounce circuit	Adjustable for all inputs in 1 ms steps: range 0...500ms
Galvanic isolation	Inputs to each other: yes

POWER METER INPUTS

Input channels	Voltage: V1, V2, V3, N; Current IL1, IL2, IL3
Voltage input range	100...230 VAC 50 Hz
Current input range	0...5 A 50 Hz
Voltage measurements	L1N, L2N, L3N
Current measurement	L1, L2, L3
Power measurements	Active power, reactive power, apparent power, power factor
Energy	Imported active energy, imported reactive energy, exported reactive energy

INTERFACES

Ethernet port	1 x RJ45, 10/100 Mbps
RS458	1 x 4-pole screw-type terminal
USB	1 x USB A port

MODBUS

Supported modes	Client
Supported connection types	RTU RS485, TCP

MQTT

MQTT Client	Allows sending data to SCADA or Cloud
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VPN

OpenVPN Client	Allows use secure, encrypted network
Encryption methods	AES-128-CBC, AES-128-CFB, AES-128-CFB1, AES-128-CFB8, AES-128-GCM, AES-128-OFB, AES-192-CBC, AES-192-CFB, AES-192-CFB1, AES-192-CFB8, AES-192-GCM, AES-192-OFB, AES-256-CBC, AES-256-CFB, AES-256-CFB1, AES-256-CFB8, AES-256-GCM, AES-256-OFB, CHACHA20-POLY1305

OPERATING ENVIRONMENT

Operating temperature	-20 °C to 55 °C
Operating humidity	10% to 90% non-condensing
Protection class	IP20

REGULATORY

Standard	EN 61131-2
Conformity	CE

DIMENSIONAL DRAWING

