

**MULTIFUNCTION
POWER METERS WITH
UNIVERSAL INPUT**
R203 / R204 Series



R203 / R204 Series MULTIFUNCTION POWER METERS WITH UNIVERSAL INPUT



R203/R204 three-phase power meters accept voltage measurements up to 600 Vac and current measurements for 5A CTs or TVs and Rogowski sensors with voltage outputs up to 250 mV, single-phase, three-phase 3/4-wire, and Aron insertion types. R203/R204 support ModBUS RTU/ASCII/TCP-IP, Profinet, Ethernet/IP, and OPC UA protocols (switchable with FLEX technology). The analyzers have Ethernet ports that can also be used for daisy chain connections with automatic bypass protection. R203 provides an output signal in voltage (0..10Vdc) or current (0/4..20mA), while R204 is UL – CSA certified. Both models also offer measurement and recording of voltage/current harmonics up to the 55th order with THD (total harmonic distortion) calculation. The instruments also operate as Edge/IoT devices (with MQTT protocol), web servers, energy meters, and data loggers for reading key parameters and downloading data and events.



ALL-IN-ONE MULTIFUNCTION SYSTEM

R203 and R204 are complete solutions for monitoring and optimizing electricity use. It operates as an analyzer, meter, data logger, gateway, and measurement converter. It can also be integrated with MES, ERP, IoT/Cloud platforms, and SSD visualization systems.



UNIVERSAL MEASUREMENT INPUT

R203 and R204 are three-phase power meters enabling universal input signals with adjustable scales up to 600 Vac (voltage), 5A(CT with current output), 250 mV (CT with voltage output or Rogowski sensors)



MEASURED VALUES AND HARMONICS

The analyzers return single-phase and three-phase values of the main electrical quantities, as well as harmonics up to the 55th order and THD. The configurable analog output (R203) allows the analyzer to be used as a measurement converter.



FIELDBUS

Seneca R203 and R204 power meters support ModBUS RTU/ASCII/TCP-IP, ProfiNet, OPC UA and Ethernet/IP protocols, which can be switched thanks to FLEX technology. The variety of models guarantees maximum flexibility and integration into industrial networks for efficient energy monitoring and management.



DATALOGGER

With support for MQTT, HTTP, and FTP protocols for data transmission, the R203 and R204 operate as data loggers (up to 30 variables per tag and approximately 55,296 samples) and event loggers with recording of up to 32,768 samples.



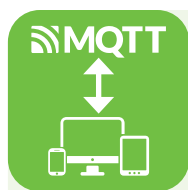
ENERGY COUNTER

The analyzers are equipped with a digital pulse output and retentive memory for accounting for active, reactive, and apparent energy. Both digital inputs have a filter and a 32-bit incremental counter.



OPC UA

Thanks to the OPC UA standard, analyzers guarantee interoperability between devices and can provide and exchange data directly with higher-level systems (SCADA, MES, ERP).



DATA TRANSMISSION VIA MQTT(s), FTP, HTTP(s)

The values acquired by the data logger can be sent directly to the cloud using the MQTT(s), Http(s), or FTP protocols. Transmission via MQTT also includes timestamps and thresholds.



ACCURACY

The instruments ensure an accuracy of 0.2% for TA/ voltage current measurements and 0.5% for active/ reactive power and Rogowski currents.



FLEXIBLE PROGRAMMING

From Web Server integrated in the instrument or EDS configuration file, it is possible to perform basic and advanced settings, diagnostics, configuration of I/O, measurements, communication, data, and logs for easy and intuitive use.



DIGITAL CERTIFICATES

X.509 authentication of the IoT device at the physical level as part of the standard TLS (Transport Layer Security) connection definition.

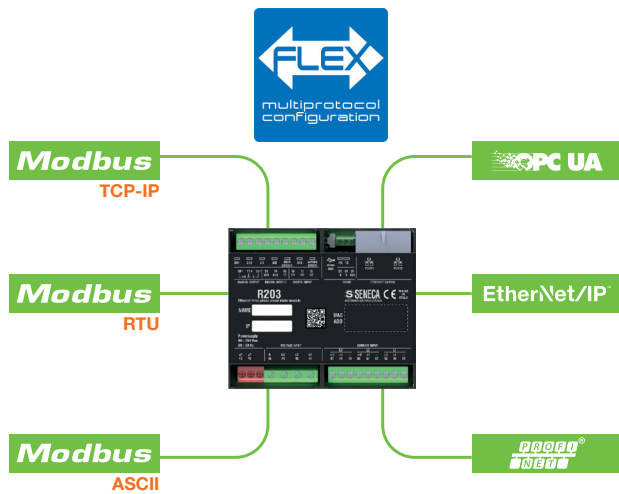


NETWORKING

From Web Server integrated in the instrument or EDS configuration file, it is possible to perform basic and advanced settings, diagnostics, configuration of I/O, measurements, communication, data, and logs for easy and intuitive use.

FLEX TECHNOLOGY

SENECA's FLEX technology allows a single device to be transformed into multiple communication and analysis devices, reconfigurable between different industrial protocols without having to change hardware.



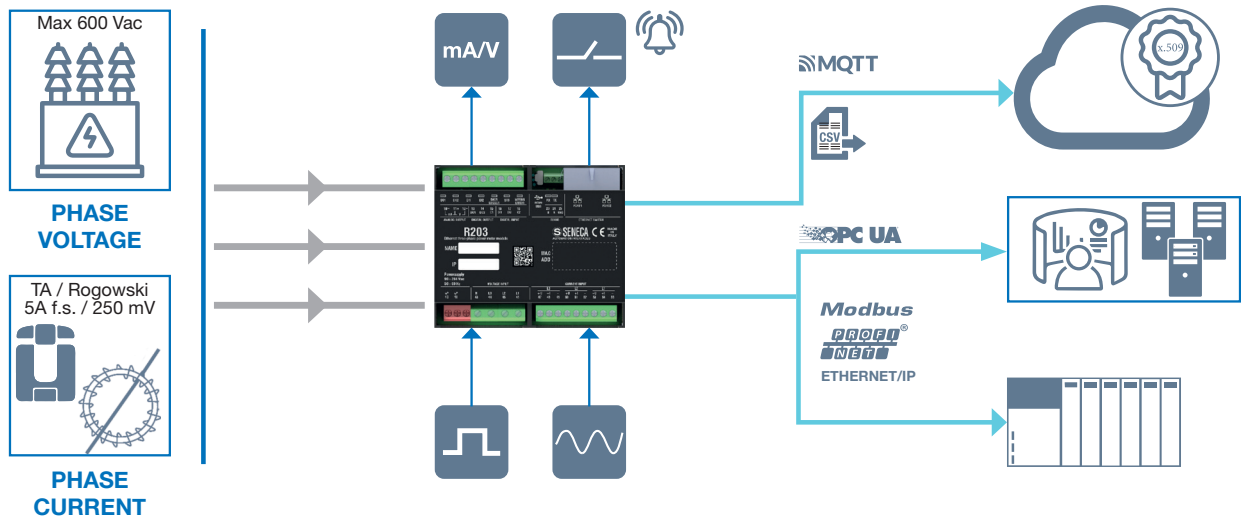
STRENGTHS

- ✓ A single multifunctional device, reusable for multiple protocols..
- ✓ Easy to update and reduced inventory costs.
- ✓ Simple and immediate protocol change (via software and DIP switch).
- ✓ Wide compatibility (ModBUS, Profinet, Ethernet/IP, OPC UA, etc.).

RECONFIGURATION PROCEDURE

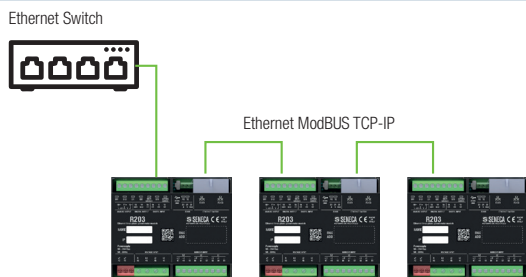
1. Connect the FLEX device to the PC via Ethernet.
2. Start SENECA Discovery Device software.
3. Select the new protocol.
4. Set the DIP Switch to programming mode.
5. Reconfigure and save the new protocol.
6. Restart the device, ready for use.

CONNECTION DIAGRAM

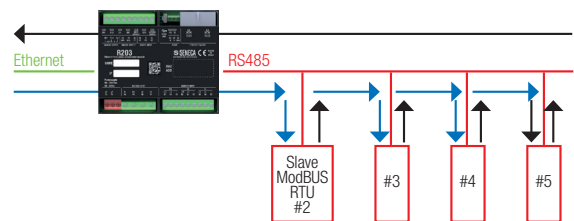


NETWORKING

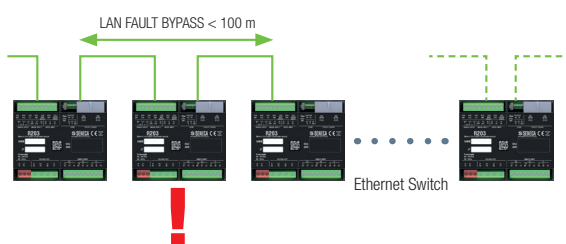
DAISY CHAIN



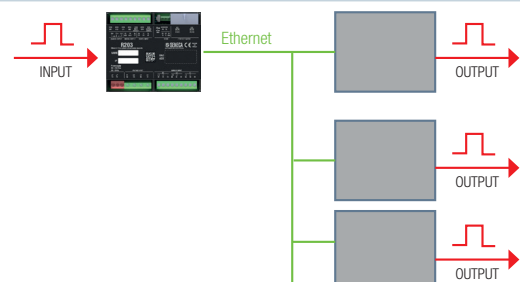
ModBUS Pass-Through



Fault By-Pass



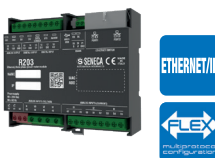
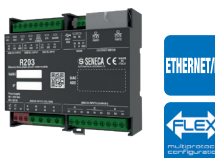
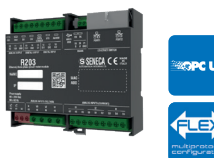
Peer-To-Peer I/P copy



MULTIFUNCTION POWER METERS WITH UNIVERSAL INPUT - R203 / R204 Series

	R203-2-L	R203-2-H	R203-2-L-P	R203-2-H-P
	  	  	  	  
	Three-phase network analyzer with 2xETH, 10-30 Vdc, ModBUS RTU/TCP-IP	Three-phase network analyzer with 2xETH, 90-264 Vac, ModBUS RTU/TCP-IP	Three-phase network analyzer with 2xETH, 10-30 Vdc, Profinet IO	Three-phase network analyzer with 2xETH, 90-264 Vac, Profinet IO
GENERAL DATA				
Power Supply	10-30 Vdc	90-264 Vac (50-60 Hz)	10-30 Vdc	90-264 Vac (50-60 Hz)
Max Consumption			2.5 W	
Max isolation			3,500 Vac	
Status Indicators			Input/Output status I/O address status Wiring error Ethernet Data Transit/Connection	
		RX/TX RS485 Datalogger	Profinet communication active	
Installation category	300 V CAT III	600 V CAT III	300 V CAT III	600 V CAT III
Type of insertion / Connection mode		Single-phase, three-phase 3-wire, three-phase 4-wire, Aron		
Front protection level			IP20	
Precision class			0.5	
Flash Memory (data)		8 MB		-
Mounting		DIN 35mm IEC EN60715 rail mounting, wall or panel mounting with screws		
Connections			Screw terminals	
Operating Temperature			-25...+65°C	
Storage temperature			-30...+ 85°C	
Humidity			30% ÷ 90% non-condensing	
Dimensions			90 x 107 x 32 mm	
Weight			170 g	
Enclosure			Self-extinguishing PC/ABS UL94-V0 material, black color	
Certifications			CE, UKCA	
MEASUREMENT AND CALCULATION TIMES				
Sampling time			8,000 sps (for voltage/current channels)	
Bus scan time		10 ms		>2 ms
RMS values settling time			580...700 ms	
Harmonic update times			30 s	
PROGRAMMING				
WEB SERVER	Connection diagnostics, device configuration, alarm and I/O configuration, datalogger, special functions (ModBUS Pass Through), firmware update		Connection diagnostics, firmware update	
GSD/GSDML/EDS	-		Configuration, project and I/O management	
SPECIAL FEATURES				
Datalogger data	Max 30 variables per tag and approx. 65504 samples storable in internal flash; sampling time between 1s and 24h		-	
Event Datalogger	Recording up to 4096 samples with respective time tag, threshold, time window, date/time		-	
ENERGY METER	Active/reactive energy metering on digital output # 2 incremental 32-bit counters on digital inputs @5kHz		-	
Integrated monitoring system	Configuration, viewing, and simultaneous monitoring on SSD for up to 40 units connected in daisy-chain mode		-	
COMMUNICATION				
RS485 / ModBUS RTU				
Interfaces	#1 RS485 port		-	
Protocol	ModBUS RTU slave		-	
Distance	Up to 1,200 m		-	
Speed	1,200...115,200 baud		-	
Connections	Max 128 Seneca device nodes		-	
Ethernet / Profinet				
Ports	#2 Ethernet 100BaseT ports			
Speed	100 Mbps			
Protocols	ModBUS TCP-IP (switchable with FLEX technology), Seneca P2P I/O Mirror with broadcast (UDP based)		Profinet IO (switchable with FLEX technology)	
Multi-protocol Configuration (ModBUS, Profinet, Ethernet/IP)			yes	
CONNECTIVITY				
Daisy Chain			x	
LAN Fault By-Pass			x	
Peer-To-Peer	x		-	
ModBUS Pass-Through	x		-	
IT/IIoT Protocols	http(s), Ftp, MQTT(s)		-	
MEASUREMENTS AND I/O				
Number of channels	#1 measurement input, #2 DI (Digital Inputs), #2 DO (Digital Outputs), #1 AO (Analog Output)			
Measurement Input	PHASE VOLTAGE Up to 600 Vac, frequency 45 ÷ 65 Hz / Minimum voltage: 5 V (Full Scale 150 Vac); 20 V (Full Scale 600 Vac) / Voltage Transformer (VT) output up to 600 Vac relative to neutral PHASE CURRENT Current input for CT (Current Transformer): 1 ÷ 5A full scale / Voltage input (mV) for CT with voltage output or Rogowski: up to 250 mV / Network Frequency: 50 ÷ 60Hz Voltmeter: 0.2% / Ammeter: 0.2%, Wattmeter: 0.5%			
Analog output	VOLTAGE OUTPUT 0...10 Vdc, minimum load resistance: 2 kΩ CURRENT OUTPUT (active/passive): 0...20, 4...20 mA, maximum load resistance: 500 Ω Transmission Error: 0.1% of the maximum range Thermal Drift: 100 ppm/K			
Digital Inputs	Digital Inputs: #2, activated by 12 to 24V			
DIGITAL OUTPUTS	Digital Outputs: #2, capacity: I _{max} = 50 mA, V _{max} = 28V			

Technical data and diagrams in this document are indicative and not binding.

	R203-2-L-E	R203-2-H-E	R203-2-L-U	R203-2-H-U
				
	Three-phase Network Analyzer, 2xETH, 10-30 Vdc, OPC UA	Three-phase Network Analyzer, 2xETH, 90-264 OPC UA	Three-phase Network Analyzer, 2xETH, 10-30 Vdc, OPC UA	Three-phase Network Analyzer, 2xETH, 90-264 OPC UA
GENERAL DATA				
Power Supply	10-30 Vdc	90-264 Vac (50-60 Hz)	10-30 Vdc	90-264 Vac (50-60 Hz)
Max Consumption	2.5 W			
Max isolation	3,500 Vac			
Status Indicators	Input/Output Status, I/O address status, wiring error, Ethernet data transit/connection, active Ethernet communication,			
Installation category	300 V CAT III	600 V CAT III	300 V CAT III	600 V CAT III
Type of insertion / Connection mode	Single-phase, three-phase 3-wire, three-phase 4-wire, Aron			
Front protection level	IP20			
Precision class	0.5			
Mounting	DIN 35mm IEC EN60715 rail mounting, wall or panel mounting with screws			
Connections	Screw terminals			
Operating Temperature	-25...+65°C			
Storage temperature	-30...+ 85°C			
Humidity	30% ÷ 90% non-condensing			
Dimensions	90 x 107 x 32 mm			
Weight	170 g			
Enclosure	Self-extinguishing PC/ABS UL94-V0 material, black color			
Certifications	CE, UKCA			
MEASUREMENT AND CALCULATION TIMES				
Sampling time	8,000 sps (for voltage/current channels)			
Bus scan time	>2 ms		>10 ms	
RMS values settling time	580..700 ms			
Harmonic update times	30s			
PROGRAMMING				
WEB SERVER	Connection diagnostics, firmware update		firmware diagnostics, device configuration, firmware update	
GSD/GSDML/EDS	Configuration, project and I/O management		-	-
INTERFACES				
Ports	#2 Ethernet 100BaseT ports			
Speed	100 Mbps			
Protocols	Ethernet/IP		OPC UA Server	
Connectivity	Daisy Chain, LAN Fault By-Pass			
MEASUREMENTS AND I/O				
Number of channels	#1 measurement input, #2 DI (Digital Inputs), #2 DO (Digital Outputs), #1 AO (Analog Output)			
Voltage Measurement Input	Up to 600 Vac, frequency: 45 ÷ 65 Hz			
	Minimum voltage 5 V (Full Scale 150 Vac); 20 V (Full Scale 600 Vac)			
	Voltage Transformer (VT) output up to 600 Vac relative to neutral			
Current Measurement Input	Current input for CT (Current Transformer): 1 ÷ 5A full scale			
	Voltage input (mV) for CT with voltage output or Rogowski: up to 250 mV			
	Network Frequency: 50 ÷ 60Hz			
	Accuracy: Volt Meter: 0.2%; Ampere Meter: 0.2%, Wattmeter: 0.5%			
Analog output	VOLTAGE 0..10 Vdc, min load resistance 2kΩ			
	CURRENT (active/passive): 0..20, 4..20 mA, maximum load resistance: 500 Ω			
	Transmission Error: 0.1% of the maximum range			
	Thermal drift: 100 ppm/K			
Digital Inputs	Digital Inputs: #2, activated by 12 to 24V			
DIGITAL OUTPUTS	Digital Outputs: #2, capacity: I _{max} = 50 mA, V _{max} = 28V			

Technical data and diagrams in this document are indicative and not binding.

MULTIFUNCTION POWER METERS WITH UNIVERSAL INPUT - R203 / R204 Series

	R204-2-L	R204-2-L-P	R204-2-L-E	R204-2-L-U
				
	Three-phase power meter, 2xEth,10-30 Vdc, ModBUS RTU/TCP-IP, UL	Three-phase power meter, 2xEth,10-30 Vdc, Profinet IO, UL	Three-phase power meter, 2xEth,10-30 Vdc, Ethernet/IP, UL	Three-phase power meter, 2xEth,10-30 Vdc, OPC UA, UL
GENERAL DATA				
Power supply	10-30 Vdc			
Maximum power consumption	2.5 W			
Maximum insulation	3.500 Vac			
Status indicators	Input / Output status I/O address status Wiring error Ethernet data transit Active Ethernet communication			
	Datalogger Rx/Tx485			
Installation category	300 V CAT III			
Insertion	Monofase, trifase 3 fili, trifase 4 fili, Aron			
Grado di protezione frontale	IP20			
Protection degree	1; Active energy measurement in accordance with EN 62053-21			
Flash Memory (dati)	8 MB	-	-	-
Mounting	DIN 35mm IEC EN60715 guide, wall or panel mounting with screws			
Connections	Screw terminals			
Operating temperature	-25..+65 °C			
Storage temperature	-30..+ 85°C			
Humidity	30% ÷ 90% non condensing			
Dimension	90 x 107 x 32 mm			
Weight	170 g			
Case	UL94-V0 self-extinguishing PC/ABS, black color			
Approvals	CE, UKCA, UL			
MEASUREMENT AND CALCULATION TIMES				
Sampling times	8.000 sps (for volyage / current channels)			
Bus scan time	10 ms		>2 ms	>10 ms
RMS value settling time	580..700 ms			
Harmonic update times	30 s			
PROGRAMMING				
Web Server	Connection diagnostics, device configuration, alarm and I/O configuration, data logger, special functions (ModBUS Pass Through), firmware update	Connection diagnostics, device configuration, firmware update		
GSD/GSDML/ EDS	-	Configuration, project management, and I/O		-
SPECIAL FUNCTIONS				
Data logger	Max 30 variables per tag and approximately 65,504 samples storable in internal flash memory; sampling time between 1s and 24h	-	-	-
Event logger	Recording of up to 4,096 samples with relative time tag, threshold, time window, date/time	-	-	-
Energy meter	Active energy, reactive energy, and digital output energy metering 2 x 32-bit incremental meters on digital inputs @5kHz	-	-	-
COMMUNICATION				
RS485 / ModBUS RTU				
Interfaces	Nr.1 RS485 port	-	-	-
Protocol	ModBUS RTU Slave	-	-	-
Distance	Up to 1,200 m	-	-	-
Speed	1,200..115,200 baud	-	-	-
Connections	Max 128 Seneca device nodes	-	-	-
Ethernet				
Ports	Nr.2 Ethernet 100BaseT ports			
Protocols	ModBUS TCP-IP, Seneca P2P I/O Mirror with broadcast (UDP based)	Profinet IO	Ethernet/IP	OPC-UA SERVER
Connectivity	Daisy Chain, LAN Fault By-Pass, Peer-To-Peer, ModBUS Pass Through	Daisy Chain, LAN Fault By-Pass	Daisy Chain, LAN Fault By-Pass	Daisy Chain, LAN Fault By-Pass
FLEX (protocol switching)	Daisy Chain, LAN Fault By-Pass, Peer-To-Peer, ModBUS Pass Through	Daisy Chain, LAN Fault By-Pass	Daisy Chain, LAN Fault By-Pass	Daisy Chain, LAN Fault By-Pass
IT/IIoT protocols	Yes			
Protocol IT/IIoT	http(s), Ftp, MQTT(s)	-	-	-
MEASUREMENTS AND I/O				
Number of channels	Nr.1 measurement input, No. 2 DI, No. 2 DO			
Voltage measurement input	Up to 600 Vac, frequency 45 ÷ 65Hz Minimum voltage 5 V (F.S. 150 Vac); 20 V (F.S. 600 Vac) TV with output up to 600 Vac relative to neutral			
Current measurement input	Current input for CT: 1 to 5A full scale Voltage input (mV) for CT with voltage output or Rogowski: up to 250 mV Mains frequency: 50 to 60Hz Accuracy: voltmeter: 0.2%; ammeter: 0.2%, wattmeter: 0.5%			
Digital inputs	2 digital inputs that can be activated with voltage from 12 to 24V			
Digital outputs	2 digital outputs, capacity Imax = 50 mA Vmax = 28V			

I dati tecnici e gli schemi su questo documento sono indicativi e non vincolanti.

MAIN MEASUREMENTS

INSTANTANEOUS VALUES

Voltage	VL1-L2, VL2-L3, VL3-L1, VL1-N, VL2-N, VL3-N
Current (+/-)	IL1, IL2, IL3, IN
Active Power (+/-)	P1, P2, P3, Ptot
Reactive Power (+/-)	Q1, Q2, Q3 and Qtot
Apparent Power (+/-)	S1, S2, S3 and Stot
Power Factor (inductive and capacitive)	PF1, PF2, PF3 and PFtot
Frequency	F1, F2, F3
Period	PER1, PER2, PER3
Voltage-Current Phase Angle [°]	Delta VIL1, VIL2, VIL3
Line Voltage Phase Angle [°]	Delta VL1-L2, VL2-L3, VL3-L1
Total Harmonic Distortion of Voltage (THD)	THD % VL1-N, VL2-N, VL3-N
Total Harmonic Distortion of Current (THD)	THD % IL1, IL2, IL3

AVERAGE VALUES IN DEMAND TIME

Average Voltage	VL1-N, VL2-N, VL3-N, VL1-N MIN, VL1-N MAX, VL2-N MIN, VL2-N MAX, VL3-N MIN, VL3-N MAX
Average Current (+/-)	IL1, IL2, IL3, IL1 MIN, IL1 MAX, IL2 MIN, IL2 MAX, IL3 MIN, IL3 MAX
Average Active Power (+/-)	P1, P2, P3, P1 MIN, P1 MAX, P2 MIN, P2 MAX, P3 MIN, P3 MAX, Ptot
Average Reactive Power (+/-)	Q1, Q2, Q3, Q1 MIN, Q1 MAX, Q2 MIN, Q2 MAX, Q3 MIN, Q3 MAX, Qtot
Average Apparent Power (+/-)	S1, S2, S3, S1 MIN, S1 MAX, S2 MIN, S2 MAX, S3 MIN, S3 MAX, Stot
Average Power Factor (inductive and capacitive)	PF1, PF2, PF3, PF1 MIN, PF1 MAX, PF2 MIN, PF2 MAX, PF3 MIN, PF3 MAX, PFtot

MAXIMUM / MINIMUM / ABSOLUTE VALUES

Voltage	VL1-N MIN, VL1-N MAX, VL2-N MIN, VL2-N MAX, VL3-N MIN, VL3-N MAX
Current (+/-)	IL1 MIN, IL1 MAX, IL2 MIN, IL2 MAX, IL3 MIN, IL3 MAX
Active Power (+/-)	P1 MIN, P1 MAX, P2 MIN, P2 MAX, P3 MIN, P3 MAX, Ptot
Reactive Power (+/-)	Q1 MIN, Q1 MAX, Q2 MIN, Q2 MAX, Q3 MIN, Q3 MAX, Qtot
Apparent Power (+/-)	S1 MIN, S1 MAX, S2 MIN, S2 MAX, S3 MIN, S3 MAX, Stot
Power Factor (inductive and capacitive)	PF1 MIN, PF1 MAX, PF2 MIN, PF2 MAX, PF3 MIN, PF3 MAX, PFtot

Counters

Active Energy [Wh]	ACTIVE ENERGY IMPORTED L1 (+) Q1/Q4
	ACTIVE ENERGY IMPORTED L2 (+) Q1/Q4
	ACTIVE ENERGY IMPORTED L3 (+) Q1/Q4
	ACTIVE ENERGY EXPORTED L1 (-) Q2/Q3
	ACTIVE ENERGY EXPORTED L2 (-) Q2/Q3
	ACTIVE ENERGY EXPORTED L3 (-) Q2/Q3
	ACTIVE ENERGY IMPORTED TOTAL (+) Q1/Q4
	ACTIVE ENERGY EXPORTED TOTAL (-) Q2/Q3
	ACTIVE ENERGY BALANCE TOTAL (+/-)
REACTIVE ENERGY [VARH]	REACTIVE ENERGY IMPORTED L1 (+) Q1/Q2
	REACTIVE ENERGY IMPORTED L2 (+) Q1/Q2
	REACTIVE ENERGY IMPORTED L3 (+) Q1/Q2
	REACTIVE ENERGY EXPORTED L1 (-) Q3/Q4
	REACTIVE ENERGY EXPORTED L2 (-) Q3/Q4
	REACTIVE ENERGY EXPORTED L3 (-) Q3/Q4
	REACTIVE ENERGY IMPORTED L1 (+) Q1
	REACTIVE ENERGY IMPORTED L2 (+) Q1
	REACTIVE ENERGY IMPORTED L3 (+) Q1
	REACTIVE ENERGY IMPORTED L1 (-) Q2
	REACTIVE ENERGY IMPORTED L2 (-) Q2
	REACTIVE ENERGY IMPORTED L3 (-) Q2
	REACTIVE ENERGY IMPORTED L1 (+) Q3
	REACTIVE ENERGY IMPORTED L2 (+) Q3
	REACTIVE ENERGY IMPORTED L3 (+) Q3
	REACTIVE ENERGY IMPORTED L1 (-) Q4
	REACTIVE ENERGY IMPORTED L2 (-) Q4
	REACTIVE ENERGY IMPORTED L3 (-) Q4
	REACTIVE ENERGY IMPORTED TOTAL (+) Q1/Q2
	REACTIVE ENERGY EXPORTED TOTAL (-) Q3/Q4
	REACTIVE ENERGY BALANCE TOTAL (+/-)
APPARENT ENERGY [VAH]	APPARENT ENERGY BALANCE TOTAL (+/-)

HARMONIC ANALYSIS

Voltage Harmonics from the fundamental to the 55th [V]	VL1-N, VL2-N, VL3-N
Current Harmonics from the fundamental to the 55th [A]	IL1, IL2, IL3
Voltage Harmonics from the 2nd to the 55th [% relative to the fundamental]	VL1-N, VL2-N, VL3-N
Current Harmonics from the 2nd to the 55th [% relative to the fundamental]	IL1, IL2, IL3

MULTIFUNCTION POWER METERS WITH UNIVERSAL INPUT - R203 / R204 Series

RANGE

Modbus

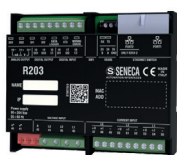
R203-2-L

Three-phase Power Meter, 2xETH, 10-30 Vdc, ModBUS RTU/TCP-IP



R203-2-H

Three-phase Power Meter, 2xETH, 90-264 Vac, ModBUS RTU/TCP-IP



R204-2-L

Three-phase Power Meter, 2xETH, 10-30 Vdc, ModBUS RTU/TCP-IP, UL



PROFINET

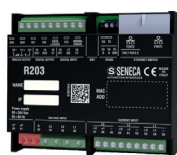
R203-2-L-P

Three-phase Power Meter, 2xETH, 10-30 Vdc, Profinet



R203-2-H-P

Three-phase Power Meter, 2xETH, 90-264 Vac, Profinet



R204-2-L-P

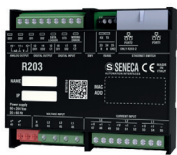
Three-phase Power Meter, 2xETH, 10-30 Vdc, Profinet IO, UL



EtherNet/IP

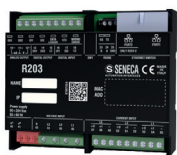
R203-2-L-E

Three-phase Power Meter, 2xETH, 10-30 Vac, Ethernet/IP



R203-2-H-E

Three-phase Power Meter, 2xETH, 90-264 Vac, Ethernet/IP



R204-2-L-E

Three-phase Power Meter, 2xETH, 10-30 Vdc, Ethernet/IP, UL



OPC UA

R203-2-L-U

Three-phase Power Meter, 2xETH, 10-30 Vdc, OPC UA



R203-2-H-U

Three-phase Power Meter, 2xETH, 90-264 Vac, OPC UA



R204-L-U

Three-phase Power Meter, 2xETH, 10-30 Vdc, OPC/UA, UL



ACCESSORIES AND CONFIGURATION

CE-RJ45-RJ45-R

Straight RJ45-RJ45 Ethernet cable



SERIES RC150

Rogowski Sensor 100 mV/kA @ 50Hz, Ø coil 38..57 cm



SERIES RC160

Rogowski Sensor 120 mV/kA @ 60Hz, Ø coil 7..17,5 cm



SERIES RC190

Rogowski Sensor 333 mV/kA @ 50Hz, Ø coil 9..28 cm



TAA SERIES

Open Core CTs



TAC SERIES

Primary Wound CTs

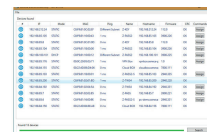


TAC SERIES

Through-bar CTs



WEB SERVER / SSD



ORDER CODE

Code	Description
POWER METERS	
R203-2-L	Three-phase power meter 2xETH, 24 Vdc, ModBUS RTU/TCP-IP
R203-2-H	Three-phase power meter, 2xETH, 90-264 Vac, ModBUS RTU/TCP-IP
R203-2-L-P	Three-phase power meter, 2xETH, 24 Vdc, Profinet IO
R203-2-H-P	Three-phase power meter, 2xETH, 90-264 Vac, Profinet IO
R203-2-L-E	Three-phase power meter, 2xETH, 24 Vdc, Ethernet/IP
R203-2-H-E	Three-phase power meter, 2xETH, 90-264 Vac, Ethernet/IP
R203-2-L-U	Three-phase power meter, 2xETH, 90-264 Vac, OPC UA
R203-2-L-U	Three-phase power meter, 2xETH, 90-264 Vac, OPC UA
R204-2-L	Three-phase power meter, 2xETH, 10-30 Vdc, ModBUS RTU/TCP-IP, UL
R204-2-L-P	Three-phase power meter, 2xETH, 10-30 Vdc, Profinet IO, UL
R204-2-L-E	Three-phase power meter, 2xETH, 10-30 Vdc, Ethernet/IP, UL
R204-L-U	Three-phase power meter, 2xETH, 10-30 Vdc, OPC UA, UL



ORDER CODES AND INFORMATION - RC150, RC160, RC190 SERIES



ORDER CODES AND INFORMATION - TAA / TAC SERIES



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