

R203 SERIES Multifunction power meters with universal input







R203 SERIES MULTIFUNCTION POWER METERS WITH UNIVERSAL INPUT

R203 three-phase power meter accepts current measurement inputs for CTs with current/voltage output, VTs and Rogowski coils(with voltage output up to 333 mV), with single-phase, three-phase 3/4-wire insertion types and with support for ModBUS RTU, ModBUS TCP-IP, Peer-To-Peer protocols. Like most of the "space-saving" R-series products, R203 has 1 or 2 Ethernet ports that can also be used for daisy chain connections with automatic bypass protection. The analyzer provides an output signal in voltage (0..10Vdc), current (0/4..20mA). R203 also offers measurement and recording of harmonics in voltage/current up to 55th order with THD (total harmonic distortion) calculation. The instrument also operates as a Web Server and datalogger for reading key parameters and downloading from data and events.

HIGHLIGHTS



UNIVERSAL ANALOG INPUTS

R203 is a three-phase network analyzer that can accept universal input signals with scales settable up to 600 Vac (voltage), 5A (CT with current output), 333 mV (CT with voltage output or Rogowski coils).



CURRENT INPUT

R203 offers measurement and recording of harmonics in voltage and current up to the 55th order with calculation of THD (total harmonic distortion).



PRECISION

The instrument ensures an accuracy of 0.2% for TA/voltage current measurements and 0.5% for active/reactive powers and Rogowski currents.



PROGRAMMING

From Web Server (or dedicated software built into the instrument, it is possible to make basic basic and advanced settings diagnostics; I/O configuration, measurements, communication, ModBUS data and registers.



INTEGRATED MONITORING SYSTEM

Through facilitated integration with the multifunctional IIoT HMI (SSD), R203 enables the analysis of all electrical parameters and their visualization in the intuitive icon and widget interface. With only one SSD installed, it is possible to manage up to 40 analyzers at simultaneously.



MEASURED VALUES

R203 returns single-phase and three-phase values of the main electrical variables: voltage, current, active, reactive, apparent power and energy, frequency, period, power factor, harmonics up to the 55th and THD. The configurable analog output allows the analyzer to also be used as a measurement converter.



ENERGY COUNTING

R203 is equipped with pulse digital output and memory retentive for metering energy active, reactive and apparent. On both digital inputs are a filter and a 32-bit incremental counter with backup to FeRAM 1 time per second.



DATALOGGER

R203 operates as a datalogger (up to 30 variables per tag and about 55,296 samples storable in the internal flash) and event datalogger with recording up to 32,768 samples with associated time tag. It is also possible to send log files in csv format to an FTP server.



DAISY CHAIN

Thanks to the Ethernet interface, a chain connection to the next device Ethernet (daisy chain) avoiding expensive industrial switches and simplifying the wiring.



LAN BYPASS

R203 enables the operation of an internal switch even if the device is faulty or unpowered up to 4 days (LAN function with bypass in case of of failure)



PEER-TO-PEER

R203 can copy and update in real time an input channel to a remote output channel without the aid of a master controller. It is also possible to copy an input to an output of multiple remote devices



MODBUS PASS-THROUGH

With the advanced function "ModBUS passthrough" the module can forward to RS485 requests coming from Modbus TCP-IP by behaving, in effect, as a gateway.

R203

R203-R0G-025

R203-R0G-040





Digital Outputs



Three-phase power meter kit, Ethernet, universal input and rogowski coil (x3) L25 D12, 100mV/1KA-50Hz



Three-phase power meter kit, Ethernet, universal input and rogowski coil (x3) L40 D12, 100mV/1KA-50Hz

	measurement	D12, 100mV/1KA-50Hz	D12, 100mV/1KA-50Hz
GENERAL DATA			
Power supply	90-264 Vac (50-60 Hz)	90-264 Vac (50-60 Hz)	90-264 Vac (50-60 Hz)
Max power consumption	2,8 W, 5,4 VA	2,8 W, 5,4 VA	2,8 W, 5,4 VA
solation	4 kVac (to/from power circuits) 1.500 Vac (other circuits)	4 kVac (to/from power circuits) 1,500 Vac (other circuits)	4 kVac (to/from power circuits) 1,500 Vac (other circuits)
LED Status indicators	Power supply, DI/DO, RS485 communication, data logger, status, wiring error, Ethernet port	Power supply, DI/DO, RS485 communication, data logger, status, wiring error, Ethernet port	Power supply, DI/DO, RS485 communication, data logger, status, wiring error, Ethernet port
nstallation category	600 V CAT III	600 V CAT III	600 V CAT III
Type of insertion/connection mode	Single-phase, 3-phase 3-wire, 3-phase 4-wire, CT, CT with mV output, Rogowski transducers	Single-phase, 3-phase 3-wire, 3-phase 4-wire, CT, CT with mV output, Rogowski transducers	Single-phase, 3-phase 3-wire, 3-phase 4-wire, CT, C'with mV output, Rogowski transducers
Protection degree	IP20	IP20	IP20
Accuracy	0.2% (CT Current/Voltage); 0.5% (Active/Reactive	0.2% (CT Current/Voltage); 0.5% (Active/Reactive	0.2% (CT Current/Voltage); 0.5% (Active/Reactive
Mounting	Power, Rogowski Current) IEC EN60715 35mm DIN rail, wall or panel mounted via screws	Power, Rogowski Current) IEC EN60715 35mm DIN rail, wall or panel mounted via screws	Power, Rogowski Current) IEC EN60715 35mm DIN rail, wall or panel mounted via screws
Connections	Screw terminals	Screw terminals	Screw terminals
Operating temperature	-25+55 °C	-25+55 °C	-25+55 °C
torage temperature	-30+ 85°C	-30+ 85°C	-30+ 85°C
lumidity	30% ÷ 90% non condensing	30% ÷ 90% non condensing	30% ÷ 90% non condensing
Dimensions	90 x 107 x 32 mm	90 x 107 x 32 mm	90 x 107 x 32 mm
Veight	170 g	170 g	170 g
Case	PC/ABS self-extinguishing UL94-V0, color black	PC/ABS self-extinguishing UL94-V0, color black	PC/ABS self-extinguishing UL94-V0, color black
Provided sensors	-	Rogowski coil (x3) L25 D12, 100mV/1KA-50Hz	Rogowski coil (x3) L40 D12, 100mV/1KA-50Hz
Certification	CE	CE	CE
MEASUREMENT AND CALCUL	ATION TIMES		
Sampling time	8,000 sps (for voltage/current channels)	8,000 sps (for voltage/current channels)	8,000 sps (for voltage/current channels)
RMS value settling time	580700 ms	580700 ms	580700 ms
larmonic update time	30s	30s	30s
PROGRAMMING	000	1000	1000
Tio di Di timini di	Connection diagnostics, device configuration, alarm	Connection diagnostics, device configuration, alarm	Connection diagnostics, device configuration, alarm
	and I/O configuration, datalogger, USB connection,	and I/O configuration, datalogger, USB connection,	and I/O configuration, datalogger, USB connection,
Veb Server			
	special functions (ModBUS Pass Through), firmware	special functions (ModBUS Pass Through), firmware	special functions (ModBUS Pass Through), firmware
	upgrade	upgrade	upgrade
DATALOGGER			
	Max. 30 variables per tag and about 55,296 samples	Max. 30 variables per tag and about 55,296 samples	Max. 30 variables per tag and about 55,296 samples
Data logger	storable in the internal flash; sample time between 1s and 24h	storable in the internal flash; sample time between 1s and 24h	storable in the internal flash; sample time between 1s and 24h
Event datalogger	Recording up to 32,768 samples with associated time tag, threshold, time window, date/time	Recording up to 32,768 samples with associated time tag, threshold, time window, date/time	Recording up to 32,768 samples with associated tim tag, threshold, time window, date/time
COMMUNICATION	ag, anomore, and what is act and	tag, anomora, and mindon, date, and	tag, anothold, and mildon, dato, and
SERIAL			
	NO1 DO 405	NO1 D0405	NO1 DC405
nterfaces	N°1 porta RS485	N°1 porta RS485	N°1 porta RS485
Protocol	ModBUS RTU Slave	ModBUS RTU Slave	ModBUS RTU Slave
Distance	Fino a 1.200 m	Fino a 1.200 m	Fino a 1.200 m
Speed	1.200115.200 baud	1.200115.200 baud	1.200115.200 baud
Connectivity	Max 128 nodi device Seneca	Max 128 nodi device Seneca	Max 128 nodi device Seneca
THERNET			
Ports	Nr. 1 or 2 100 Mbps Ethernet ports	Nr. 1 or 2 100 Mbps Ethernet ports	Nr. 1 or 2 100 Mbps Ethernet ports
Connections	Daisy Chain	Daisy Chain	Daisy Chain
Protocols	ModBUS TCP-IP, Seneca P2P I/O Mirror with broadcast	ModBUS TCP-IP, Seneca P2P I/O Mirror with broadcast (UDP based)	ModBUS TCP-IP, Seneca P2P I/O Mirror with broadca
JSB	(UDP based)	(טטו אמפטן)	(UDP based)
Ports	Nr.1 Micro USB programming port	Nr.1 Micro USB programming port	Nr.1 Micro USB programming port
/0	The state of the s	, mare does programming port	,
Channels	2 digital inputs/outputs, 1 analog output	2 digital inputs/outputs, 1 analog output	2 digital inputs/outputs, 1 analog output
Measurement Input	VOLTAGE up to 600 Vac, freq. 45 ÷ 65 Hz. CURRENT: TA 1 ÷ 5 A full scale; voltage (mV) for TA with voltage	VOLTAGE up to 600 Vac, freq. 45 ÷ 65 Hz. CURRENT: TA 1 ÷ 5 A full scale; voltage (mV) for TA with voltage	VOLTAGE up to 600 Vac, freq. $45 \div 65$ Hz. CURRENT TA $1 \div 5$ A full scale; voltage (mV) for TA with voltage
	or Rogowski output: up to 333 mV f.s.	or Rogowski output: up to 333 mV f.s.	or Rogowski output: up to 333 mV f.s.
Rogowski Analog Input	VOLTAGE: up to 600 Vac, frequency 4565 Hz ROGOWSKI (supplied by SENECA): 100 1000 A @	VOLTAGE: up to 600 Vac, frequency 4565 Hz ROGOWSKI (supplied by SENECA): 100 1000 A @	VOLTAGE: up to 600 Vac, frequency 4565 Hz ROGOWSKI (supplied by SENECA): 100 1000 A @
	50 Hz (sine); 120 mV to 1000 A @ 60 Hz (sine); Max	50 Hz (sine); 120 mV to 1000 A @ 60 Hz (sine); Max	50 Hz (sine); 120 mV to 1000 A @ 60 Hz (sine); Ma
	measurable current: 3 kA @ 50 Hz; 2.5 kA @ 60 Hz	measurable current: 3 kA @ 50 Hz; 2.5 kA @ 60 Hz	measurable current: 3 kA @ 50 Hz; 2.5 kA @ 60 Hz
Analog Output	VOLTAGE 010 Vdc, min load resistance $2k\Omega$	VOLTAGE 010 Vdc, min load resistance $2k\Omega$	VOLTAGE 010 Vdc, min load resistance $2k\Omega$
	CURRENT 020, 420 mA, max load resistance 500Ω	CURRENT 020, 420 mA, max load resistance 500Ω	CURRENT 020, 420 mA, max load resistance 500
	Transmission error: 0.1 % of maximum range Thermal	Transmission error: 0.1 % of maximum range Thermal	Transmission error: 0.1 % of maximum range Therm
	drift: 100 ppm/K	drift: 100 ppm/K	drift: 100 ppm/K
Digital Inputs	· ·	No.2 digital inputs that can be activated with voltage	No.2 digital inputs that can be activated with voltage
ngital iliputs	No.2 digital inputs that can be activated with voltage		
Digital Autouta	from 12 to 24V	from 12 to 24V	from 12 to 24V

No.2 digital outputs, range Imax = 50 mA Vmax = 28V No.2 digital outputs, range Imax = 50 mA Vmax = 28V No.2 digital outputs, range Imax = 50 mA Vmax = 28V

R203-R0G-060



R203-TA50









Three-phase power meter kit, Ethernet, universal input and rogowski coil (x3) L60 D12, 100mV/1KA-50Hz

Three-phase power meter kit, Ethernet, universal input and rogowski coil (x3) L90 D12, 100mV/1KA-50Hz

Power meter kit, Ethernet, universal input, 3xTA 50/5A, cl.0.5/1, D23mm

	D12, 100mV/1KA-50Hz	D12, 100mV/1KA-50Hz	5 55, 5, 61616/ 1, B2611111
GENERAL DATA			
	90-264 Vac (50-60 Hz)	90-264 Vac (50-60 Hz)	90-264 Vac (50-60 Hz)
Power supply Max power consumption	2,8 W, 5,4 VA	2.8 W. 5.4 VA	2,8 W, 5,4 VA
		7 - 7 - 7	
Isolation	4 kVac (to/from power circuits) 1,500 Vac (other circuits)	4 kVac (to/from power circuits) 1,500 Vac (other circuits)	4 kVac (to/from power circuits) 1,500 Vac (other circuits)
LED Status indicators	Power supply, DI/DO, RS485 communication, data logger, status, wiring error, Ethernet port	Power supply, DI/DO, RS485 communication, data logger, status, wiring error, Ethernet port	Power supply, DI/DO, RS485 communication, data logger, status, wiring error, Ethernet port
Installation category	600 V CAT III	600 V CAT III	600 V CAT III
Type of insertion/connection mode	Single-phase, 3-phase 3-wire, 3-phase 4-wire, CT, CT	Single-phase, 3-phase 3-wire, 3-phase 4-wire, CT, CT	Single-phase, 3-phase 3-wire, 3-phase 4-wire, CT, C
Protection degree	with mV output, Rogowski transducers	with mV output, Rogowski transducers	with mV output, Rogowski transducers
Accuracy	0.2% (CT Current/Voltage); 0.5% (Active/Reactive	0.2% (CT Current/Voltage); 0.5% (Active/Reactive	0.2% (CT Current/Voltage); 0.5% (Active/Reactive
<u> </u>	Power, Rogowski Current)	Power, Rogowski Current)	Power, Rogowski Current)
Mounting	IEC EN60715 35mm DIN rail, wall or panel mounted via screws	IEC EN60715 35mm DIN rail, wall or panel mounted via screws	IEC EN60715 35mm DIN rail, wall or panel mounted via screws
Connections	Screw terminals	Screw terminals	Screw terminals
Operating temperature	-25+55 °C	-25+55 °C	-25+55 °C
Storage temperature	-30+ 85°C	-30+ 85°C	-30+ 85°C
Humidity	30% ÷ 90% non condensing	30% ÷ 90% non condensing	30% ÷ 90% non condensing
Dimensions	•		•
	90 x 107 x 32 mm	90 x 107 x 32 mm	90 x 107 x 32 mm
Weight	170 g	170 g	170 g
Case	PC/ABS self-extinguishing UL94-V0, color black	PC/ABS self-extinguishing UL94-V0, color black	PC/ABS self-extinguishing UL94-V0, color black
Provided sensors	Rogowski coil (x3) L60 D12, 100mV/1KA-50Hz	Rogowski coil (x3) L90 D12, 100mV/1KA-50Hz	3xCT 50/5A, cl.0,5/1, D23mm
Certification	CE	CE	CE
MEASUREMENT AND CALCUL			
Sampling time	8,000 sps (for voltage/current channels)	8,000 sps (for voltage/current channels)	8,000 sps (for voltage/current channels)
RMS value settling time	580700 ms	580700 ms	580700 ms
Harmonic update time	30s	30s	30s
PROGRAMMING			
	Connection diagnostics, device configuration, alarm	Connection diagnostics, device configuration, alarm	Connection diagnostics, device configuration, alarm
	and I/O configuration, datalogger, USB connection,	and I/O configuration, datalogger, USB connection,	and I/O configuration, datalogger, USB connection,
Web Server			
	special functions (ModBUS Pass Through), firmware	special functions (ModBUS Pass Through), firmware	special functions (ModBUS Pass Through), firmware
	upgrade	upgrade	upgrade
DATALOGGER			
	Max. 30 variables per tag and about 55,296 samples	Max. 30 variables per tag and about 55,296 samples	Max. 30 variables per tag and about 55,296 sample
Data logger	storable in the internal flash; sample time between 1s and 24h	storable in the internal flash; sample time between 1s and 24h	storable in the internal flash; sample time between 1s and 24h
Event datalogger	Recording up to 32,768 samples with associated time	Recording up to 32,768 samples with associated time	Recording up to 32,768 samples with associated time
COMMUNICATION	tag, threshold, time window, date/time	tag, threshold, time window, date/time	tag, threshold, time window, date/time
SERIAL			
Interfaces	N°1 porta RS485	N°1 porta RS485	N°1 porta RS485
Protocol	ModBUS RTU Slave	ModBUS RTU Slave	ModBUS RTU Slave
Distance	Fino a 1.200 m	Fino a 1.200 m	Fino a 1.200 m
Speed	1.200115.200 baud	1.200115.200 baud	1.200115.200 baud
Connectivity	Max 128 nodi device Seneca	Max 128 nodi device Seneca	Max 128 nodi device Seneca
ETHERNET			
Ports	Nr. 1 or 2 100 Mbps Ethernet ports	Nr. 1 or 2 100 Mbps Ethernet ports	Nr. 1 or 2 100 Mbps Ethernet ports
Connections	Daisy Chain	Daisy Chain	Daisy Chain
			, .
Protocols	ModBUS TCP-IP, Seneca P2P I/O Mirror with broadcast (UDP based)	ModBUS TCP-IP, Seneca P2P I/O Mirror with broadcast (UDP based)	(UDP based)
USB	1, 20000)	((
Ports	Nr.1 Micro USB programming port	Nr.1 Micro USB programming port	Nr.1 Micro USB programming port
1/0			
	2 digital inputa/outputs 1 applies output	2 digital inputs/autauta 1 analog autaut	2 digital inputs/outputs 1 apples output
Channels	2 digital inputs/outputs, 1 analog output	2 digital inputs/outputs, 1 analog output	2 digital inputs/outputs, 1 analog output
Measurement Input	VOLTAGE up to 600 Vac, freq. $45 \div 65$ Hz. CURRENT: TA $1 \div 5$ A full scale; voltage (mV) for TA with voltage	VOLTAGE up to 600 Vac, freq. $45 \div 65$ Hz. CURRENT: TA $1 \div 5$ A full scale; voltage (mV) for TA with voltage	VOLTAGE up to 600 Vac, freq. $45 \div 65$ Hz. CURREN TA $1 \div 5$ A full scale; voltage (mV) for TA with voltage
	or Rogowski output: up to 333 mV f.s.	or Rogowski output: up to 333 mV f.s.	or Rogowski output: up to 333 mV f.s.
Rogowski Analog Input	VOLTAGE: up to 600 Vac, frequency 4565 Hz	VOLTAGE: up to 600 Vac, frequency 4565 Hz	VOLTAGE: up to 600 Vac, frequency 4565 Hz
nogonow malog input	ROGOWSKI (supplied by SENECA): 100 1000 A @ 50 Hz (sine); 120 mV to 1000 A @ 60 Hz (sine); Max	ROGOWSKI (supplied by SENECA): 100 1000 A @ 50 Hz (sine); 120 mV to 1000 A @ 60 Hz (sine); Max	ROGOWSKI (supplied by SENECA): 100 1000 A @ 50 Hz (sine); 120 mV to 1000 A @ 60 Hz (sine); M
	measurable current: 3 kA @ 50 Hz; 2.5 kA @ 60 Hz	measurable current: 3 kA @ 50 Hz; 2.5 kA @ 60 Hz	measurable current: 3 kA @ 50 Hz; 2.5 kA @ 60 Hz
Analog Output	VOLTAGE 010 Vdc, min load resistance 2kΩ	VOLTAGE 010 Vdc, min load resistance $2k\Omega$	VOLTAGE 010 Vdc, min load resistance $2k\Omega$
	CURRENT 020, 420 mA, max load resistance 500Ω	CURRENT 020, 420 mA, max load resistance 500Ω	CURRENT 020, 420 mA, max load resistance 500
	Transmission error: 0.1 % of maximum range Thermal	Transmission error: 0.1 % of maximum range Thermal	Transmission error: 0.1 % of maximum range Therm
	•	_	-
Disital Issuets	drift: 100 ppm/K	drift: 100 ppm/K No.2 digital inputs that can be activated with voltage	drift: 100 ppm/K No.2 digital inputs that can be activated with voltage
Digital inputs	No.2 digital inputs that can be activated with voltage		
Digital Inputs Digital Outputs	from 12 to 24V	from 12 to 24V No.2 digital outputs, range Imax = 50 mA Vmax = 28V	from 12 to 24V

MEASUREMENT PARAMETERS

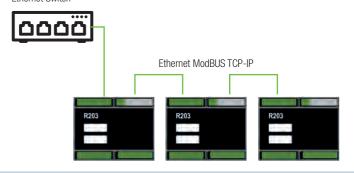
NSTATU VALUES		
Marche Power (+) MacCore Power (+) MacCo	INSTANT VALUES	
P. P. P. P. P. P. P. P.	Voltage	VL1-L2, VL2-L3, VL3-L1, VL1-N, VL2-N, VL3-N
Reaction Provert (+2) 0, 12, 02 as a fine	Current (+/-)	IL1, IL2, IL3, IN
Magnath Nover (+-)	Active Power (+/-)	P1, P2, P3, Ptot
Propure Prop	Reactive Power (+/-)	Q1, Q2, Q3 e Qtot
Figure F	Apparent Power (+/-)	S1, S2, S3 e Stot
Paris Pari	Power Factor (inductive and capacitive)	PF1, PF2, PF3 e PFtot
Noting a control of the Shift 1	Frequency	F1, F2, F3
Detail Name, No.	Period	PER1, PER2, PER3
Detail Name, No.	Voltage-Current Phase Shift [°]	
Total Stammonic Distortion of Violating (TIRP) TIP ON MILH, ML-2-M, ML-2-M ADERAGE VALUES IN DEMAND TIME Average Violating VII.1-M, VII.2-M, VII.2-M, VII.2-M, ML-1 MINK, VII.2-M MAX, VII.2-M MINK, VII.2-M MAX, VII.2-M MINK, VII.2-M MAX, VI		
Time March Time	•	THD % VL1-N, VL2-N, VL3-N
Average Values IN DEMAND TIME	- , ,	
Average Visibage		,,
Reverage Active Power (+/-)		WA N WO N WO N WA NAME WA N MAY WO N MIN WO N MAY WO N MIN WO N MAY
American Active Fower (+-)		
Recing Recinit Power (+/-)		
Average Power Factor (inductive and capacitive)	· ,	
ABSOLUTE / MAXIMUM / MINIMUM VALUES Value	<u> </u>	
VILT-N MIN, VLT-N MI		
VI-NUM, VI-N		
Current (++)	ABSOLUTE / MAXIMUM / MINIMUM VALUE	S
Rescrive Power (+/-)	Voltage	VL1-N MIN, VL1-N MAX, VL2-N MIN, VL2-N MAX, VL3-N MIN, VL3-N MAX
P. MIN, P. MAX, P. SMIN, P. SMAX, SMIN Rapactive Prover (+/-) SMIN, Q. TMAX, Q. SMIN, Q. SMIX, Q. SMIX, SMIX, SMIX Power factor (inductive and capacitive) PFI MIN, PFI MAX, P. SMIN, S. SMIX, S. SMIX, SMIX, SMIX, SMIX POWER FACTOR (Inductive and capacitive) PFI MIN, PPI MAX, P. SMIN, P. SMAX, SMIN, SMAX, SMIX POWER FACTOR (INDUCTIVE SMERGY I. (+) Q. 1704 IMPORTED ACTIVE ENERGY I. (+) Q. 1704 EXPORTED ACTIVE ENERGY I. (+) Q. 1702 IMPORTED ENERGY I. (+) Q. 1704 EXPORTED RACTIVE ENERGY I. (+) Q. 1704 EXP	Current (+/-)	IL1 MIN, IL1 MAX, IL2 MIN, IL2 MAX, IL3 MIN, IL3 MAX
Reactive Power (-/-) 01 MIN, 01 MAX, 02 MIN, 02 MAX, 03 MIN, 03 MAX, 01 MAX, 01 MAX, 01 MIN, 03 MAX, 01 MA	,	P1 MIN, P1 MAX, P2 MIN, P2 MAX, P3 MIN, P3 MAX, Ptot
Apparent Power (+/-) S1 MIN, S1 MAX, S2 MIN, S2 MIN, S2 MIN, S2 MIN, S1 MAX, Stot	Reactive Power (+/-)	Q1 MIN, Q1 MAX, Q2 MIN, Q2 MAX, Q3 MIN, Q3 MAX, Qtot
Power Factor (inductive and capacitive)	· ,	
MPORTED ACTIVE ENERGY [Wh] MPORTED ACTIVE ENERGY 12 (+) 01/04 EXPORTED ACTIVE ENERGY 12 (+) 02/03 EXPORTED ACTIVE ENERGY 12 (+) 02/03 EXPORTED ACTIVE ENERGY 12 (+) 02/03 MPORTED ACTIVE ENERGY 12 (+) 02/03 MPORTED ACTIVE ENERGY 12 (+) 02/03 MPORTED ACTIVE ENERGY 17 (+) 02/03 MPORTED ACTIVE ENERGY 17 (+) 01/04 EXPORTED ACTIVE ENERGY 17 (+) 01/02 MPORTED ACTIVE ENERGY 17 (+) 01/02 MPORTED ACTIVE ENERGY 17 (+) 01/02 MPORTED ENERGY 18 (+) 01/04 MPORTED ENERGY 18 (+) 0		
MPORTED ACTIVE ENERGY 1 (+) 0 10/04		
MPORTED ACTIVE ENERGY 12 (+) 01/04		IMPORTED ACTIVE ENERGY I 1 (1) 01/04
MPORTED ACTIVE ENERGY 12 (-) 02/03 EXPORTED ACTIVE ENERGY 12 (-) 02/03 EXPORTED ACTIVE ENERGY 12 (-) 02/03 MPORTED ACTIVE ENERGY 12 (-) 02/03 MPORTED ACTIVE ENERGY 10 (-) 01/04 EXPORTED ACTIVE ENERGY 11 (-) 01/02 MPORTED IDLE ENERGY 11 (-) 01/02 MPORTED IDLE ENERGY 12 (-) 01/02 MPORTED IDLE ENERGY 12 (-) 01/02 MPORTED REACTIVE ENERGY 12 (-) 01/02 EXPORTED REACTIVE ENERGY 12 (-) 01/02 EXPORTED REACTIVE ENERGY 13 (-) 03/04 EXPORTED REACTIVE ENERGY 14 (-) 03/04 EXPORTED REACTIVE ENERGY 14 (-) 01/02 MPORTED REACTIVE ENERGY 14 (-) 01 MPORTED REACTIVE ENERGY 14 (-) 01 MPORTED REACTIVE ENERGY 14 (-) 02 MPORTED REACTIVE ENERGY 14 (-) 03 MPORTED REACTIVE ENERGY 15 (-) 04 MPORTED REACTIVE ENERGY 16 (-) 03 MPORTED REACTIVE ENERGY 17 (-) 04 MPORTED REACTIVE ENERGY 17 (-) 04 MPORTED REACTIVE ENERGY 17 (-) 03 MPORTED REACTIVE ENERGY 18 (-)	ACTIVE ENERGY [WII]	•
EXPORTED ACTIVE ENERGY L2 (-) 02/03 EXPORTED ACTIVE ENERGY L3 (-) 02/03 EXPORTED ACTIVE ENERGY TO (-) 01/04 EXPORTED ACTIVE ENERGY TO (-) 01/04 EXPORTED ACTIVE ENERGY TO (-) 01/04 EXPORTED ACTIVE ENERGY TO (-) 01/02 TOTAL ACTIVE ENERGY BALANCE (+-) IMPORTED BEATTIVE ENERGY BALANCE (+-) IMPORTED BEATTIVE ENERGY L3 (-) 01/02 IMPORTED REACTIVE ENERGY L3 (-) 01/02 IMPORTED REACTIVE ENERGY L3 (-) 01/02 IMPORTED REACTIVE ENERGY L3 (-) 01/02 EXPORTED REACTIVE ENERGY L3 (-) 03/04 IMPORTED REACTIVE ENERGY L3 (-) 02 IMPORTED REACTIVE ENERGY L3 (-) 02 IMPORTED REACTIVE ENERGY L3 (-) 02 IMPORTED REACTIVE ENERGY L3 (-) 03/04 IMPORTED REACTIVE ENERGY L3 (-) 04/03/04 IMPORTED REACTIVE ENERGY L3		
EXPORTED ACTIVE ENERGY 12 (-) 02/03 MIPORTED ACTIVE ENERGY 107 (-) 02/03 MIPORTED ACTIVE ENERGY 107 (-) 02/03 TOTAL ACTIVE ENERGY 81 ALANCE (+-) REACTIVE ENERGY [VARh] IMPORTED DILE ENERGY 107 (-) 01/02 IMPORTED DILE ENERGY 11 (-) 01/02 IMPORTED BEACTIVE ENERGY 12 (-) 01/02 IMPORTED BEACTIVE ENERGY 12 (-) 01/02 IMPORTED BEACTIVE ENERGY 12 (-) 01/02 IMPORTED REACTIVE ENERGY 12 (-) 03/04 EXPORTED REACTIVE ENERGY 12 (-) 03/04 EXPORTED REACTIVE ENERGY 12 (-) 03/04 EXPORTED REACTIVE ENERGY 12 (-) 01 01 IMPORTED REACTIVE ENERGY 12 (-) 02 01 IMPORTED REACTIVE ENERGY 12 (-) 03 01 IMPORTED REACTIVE ENERGY 12 (-) 04 01 IMPORTED REACTIVE ENERGY 13 (-) 03 03 04 01 IMPORTED REACTIVE ENERGY 14 (-) 03 03 04 01 IMPORTED REACTIVE ENERGY 14 (-) 03 03 04 01 IMPORTED REACTIVE ENERGY 14 (-) 03 03 04 01 IMPORTED REACTIVE ENERGY 14 (-) 04 01 02 03 04 01 IMPORTED REACTIVE ENERGY 15 (-) 04 01 02 03 04 01 IMPORTED REACTIVE ENERGY 15 (-) 04 01 02 03 04 01 IMPORTED REACTIVE ENERGY 15 (-) 04 01 02 03 04 01 03 04 01 03 04 01 03 04 01 03 04 01 03 04 01 03 04 01 03 04 01 03 04 01 03 04 01 03 04 01 03 04 01 03 04 01 03 04 01 03 04		•
MPORTED ACTIVE ENERGY TOT (+) 01/04		
EXPORTED ACTIVE ENERGY 107 (-) 02/03 TOTAL ACTIVE ENERGY BALANCE (+-)		EXPORTED ACTIVE ENERGY L3 (-) Q2/Q3
TOTAL ACTIVE ENERGY [VARh] MPORTED IDLE ENERGY L1 (+) 01/02 MPORTED IDLE ENERGY L2 (+) 01/02 MPORTED IDLE ENERGY L2 (+) 01/02 MPORTED REACTIVE ENERGY L2 (+) 01/02 EXPORTED REACTIVE ENERGY L3 (+) 01/02 EXPORTED REACTIVE ENERGY L1 (-) 03/04 EXPORTED REACTIVE ENERGY L1 (-) 03/04 EXPORTED REACTIVE ENERGY L1 (-) 03/04 EXPORTED REACTIVE ENERGY L1 (-) 01 MPORTED REACTIVE ENERGY L1 (-) 02 MPORTED REACTIVE ENERGY L1 (-) 03 MPORTED REACTIVE ENERGY L1 (-) 04 MPORTED REACTIVE ENERGY L1 (-) 04 MPORTED REACTIVE ENERGY L2 (-) 02 MPORTED REACTIVE ENERGY L2 (-) 03 MPORTED REACTIVE ENERGY L2 (-) 04 MPORTED REACTIVE ENERGY L3 (-) 04 MPORTED REACTIVE E		IMPORTED ACTIVE ENERGY TOT (+) Q1/Q4
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Voltage harmonics from fundamental to 55th [V]. Current harmonics from fundamental to 55th [A]. Voltage harmonics from 2nd to 55th [% with respect to fundamental] Current harmonics from 2nd to 55th L1, IL2, IL3 LL1, IL2, IL3	APPARENT ENERGY [VAh]	TOTAL APPARENT ENERGY BALANCE (+-)
Voltage harmonics from fundamental to 55th [V]. Current harmonics from fundamental to 55th [A]. Voltage harmonics from 2nd to 55th [% with respect to fundamental] Current harmonics from 2nd to 55th L1, IL2, IL3 LL1, IL2, IL3	HARMONIC ANALYSIS	
Current harmonics from fundamental to 55th [A]. Voltage harmonics from 2nd to 55th [% with respect to fundamental] Current harmonics from 2nd to 55th L1, IL2, IL3		VI 1-N VI 2-N VI 3-N
Voltage harmonics from 2nd to 55th [% with respect to fundamental] Current harmonics from 2nd to 55th LL1, LL2, LL3		
[% with respect to fundamental] VL1-N, VL2-N, VL3-N Current harmonics from 2nd to 55th L1, IL2, IL3	•	nery neety flet/
Current harmonics from 2nd to 55th	•	VL1-N, VL2-N, VL3-N
	•	
[70 WIGH TESPECT TO FUNDAMENTAL]		IL1, IL2, IL3
	[70 WILLI FESPECT TO TUNGAMENTAL]	

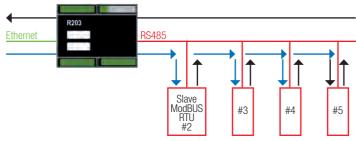
CONNECTION EXAMPLES

DAISY CHAIN CONNECTION

MODBUS PASS THROUGH

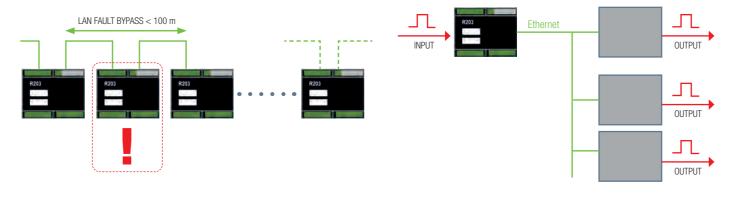
Ethernet Switch





FAULT BYPASS CONNECTION

I/O COPY WITH PEER-TO-PEER FUNCTION



ΛD	DER	ഹ	DE
UN	VER	UU	UΕ
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OHDEN CODE		
Code	Description	
R203-1	Three-phase power meter single Ethernet and universal input	
R203-1-R0G-025	Three-phase power meter kit, single Ethernet, universal input and Rogowski coil (x3) L25 D12, 100mV/1KA-50Hz, 3mt	
R203-1-R0G025-10	Three-phase power meter kit, single Ethernet, universal input and Rogowski coil (x3) L25 D12, 100mV/1KA-50Hz, 10mt	
R203-1-R0G-025-5	Three-phase power meter kit, single Ethernet, universal input and Rogowski coil (x3) L25 D12, 100mV/1KA-50Hz, 5mt	
R203-1-R0G-040	Three-phase power meter kit, single Ethernet, universal input and Rogowski coil (x3) L40 D12, 100mV/1KA-50Hz, 3mt	
R203-1-R0G040-10	Three-phase power meter kit, single Ethernet, universal input and Rogowski coil (x3) L40 D12, 100mV/1KA-50Hz, 10mt	
R203-1-R0G-040-5	Three-phase power meter kit, single Ethernet, universal input and Rogowski coil (x3) L40 D12, 100mV/1KA-50Hz, 5mt	
R203-1-R0G-060	Three-phase power meter kit, single Ethernet, universal input and Rogowski coil (x3) L60 D12, 100mV/1KA-50Hz, 3mt	
R203-1-R0G060-10	Three-phase power meter kit, single Ethernet, universal input and Rogowski coil (x3) L60 D12, 100mV/1KA-50Hz, 10mt	
R203-1-R0G-060-5	Three-phase power meter kit, single Ethernet, universal input and Rogowski coil (x3) L60 D12, 100mV/1KA-50Hz, 5mt	
R203-1-R0G-090	Three-phase power meter kit, single Ethernet, universal input and Rogowski coil triplet L90 D12, 100mV/1KA-50Hz, 3mt	
R203-1-TA50	Power meter kit, 1xETH, univ. input, 3xTA 50/5A, cl.0.5/1, D23mm	
R203-2	Three-phase dual Ethernet power meter and universal input	
R203-2-R0G-025	Three-phase power meter kit, dual Ethernet, universal input and Rogowski coil triplet L25 D12, 100mV/1KA-50Hz, 3mt	
R203-2-R0G025-10	Three-phase power meter kit, dual Ethernet, universal input and Rogowski coil (x3) L25 D12, 100mV/1KA-50Hz, 10mt	
R203-2-R0G-025-5	Three-phase power meter kit, dual Ethernet, universal input and Rogowski coil (x3) L25 D12, 100mV/1KA-50Hz, 5mt	
R203-2-R0G-040	Three-phase power meter kit, dual Ethernet, universal input and Rogowski coil (x3) L40 D12, 100mV/1KA-50Hz, 3mt	2
R203-2-R0G040-10	Three-phase power meter kit, dual Ethernet, universal input and Rogowski coil (x3) L40 D12, 100mV/1KA-50Hz, 10mt	
R203-2-R0G-040-5	Three-phase power meter kit, dual Ethernet, universal input and Rogowski coil (x3) L40 D12, 100mV/1KA-50Hz, 5mt	
R203-2-R0G-060	Three-phase power meter kit, dual Ethernet, universal input and Rogowski coil (x3) L60 D12, 100mV/1KA-50Hz, 3mt	
R203-2-R0G060-10	Three-phase power meter kit, dual Ethernet, universal input and Rogowski coil (x3) L60 D12, 100mV/1KA-50Hz, 10mt	MT SILLS COOL LOCATION
R203-2-R0G-060-5	Three-phase power meter kit, dual Ethernet, universal input and Rogowski coil (x3) L60 D12, 100mV/1KA-50Hz, 5mt	2
R203-2-R0G-090	Three-phase power meter kit, dual Ethernet, universal input and Rogowski coil (x3) L90 D12, 100mV/1KA-50Hz, 3mt	1
R203-2-TA50	Power meter kit, 2xETH, univ. input, 3xTA 50/5A, cl.0.5/1, D23mm	



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