

# Z203

## Single-Phase Network Analyzer / RS485 Modbus

### Z / Z-PC LINE

Special modules / Electric measures converters



- ▶ INPUT: up to 500 Vac, 5 Arms
- ▶ OUTPUT: N.1 channel current 0..20, 4..20 mA or voltage 0..5, 0..10 Vdc
- ▶ INTERFACE:
  - RS485 serial communication with Modbus–RTU protocol
  - Analogue output configurable to Vrms, Irms, Watt, Var, cosΦ
- ▶ Easy Dip-switch settings for address and baud rate
- ▶ Accuracy: 0,5%
- ▶ Galvanic isolation @ 3,75 KV
- ▶ Screw-fit terminals removable
- ▶ Din rail mounting
- ▶ Power supply: 10..40 Vdc, 19..28 Vac

## TECHNICAL SPECIFICATIONS

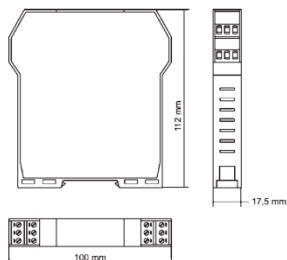
### Z203 - Single-Phase Network Analyzer / RS485 Modbus



Approvals



#### Dimensions



#### ORDER CODES

Code	Description
Z203	Z203 - Single-Phase Network Analyzer / RS485 Modbus

#### Serial line accessories

K107A	RS485 ↔ RS485 isolator repeater
K107B	RS232 ↔ RS485 isolator repeater
K107USB	USB ↔ RS485 din rail mounting converter
S107USB	USB ↔ RS485 portable version converter

#### Configuration

PM001600	Programming cable (DB9 / jack stereo)
Z-PROG / Z-NET3	configuration software downloading from <a href="http://www.seneca.it">www.seneca.it</a>

#### Bus system

Z-PC DINAL	Terminal block for power & RS485 communication
Z-PC DIN2 (4, 8)	2, 4, 8 slot block

#### GENERAL FEATURES

Power supply	10+40 Vdc, 19+28 Vac
Channels	N.1
Accuracy	< 0,5%
Status indicators	- Power - Fail - Communication on Rs485
Galvanic Isolation	- Input/Power supply and Input/Output at 3750 Vac - Others at 1.500 Vac
Hot swapping	Yes
Power consumption	max 2,0 W
Protections for inputs	Against Surges: up to 4kV
Humidity	30..90% a +40°C (not condensing)
Operating temperature	-10..+65 °C
Mounting	35 mm DIN 46277
Design	Terminal housing for mounting on 35 mm DIN 46277
Enclosure	"V0" self-extinguishing glass filled nylon case
Dimensions	17,5 x 100 x 112 mm (w x h x d)
Weight	140 g

#### SIGNAL AND INTERFACES

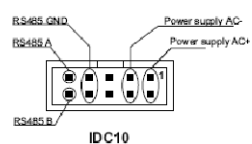
Input	<b>Voltage:</b> max 500 Vac, 50-60 Hz <b>Current:</b> 5 Arms, 50-60 Hz
Serial interface	<b>Rs485 Modbus RTU slave:</b> 1200...115200 baud rate
Analog Output	Corresponding at Vrms, Irms, Watt, Var, cosΦ

#### CONFIGURATION, NORMS, OTHER FEATURES

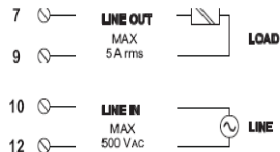
Data memory	EEPROM for all configuration data; storage time: 10 years.
Connections	Plug-in screw clamp terminal blocks, wires up to 2.5 mm <sup>2</sup>
IP Protection	IP 20
DIP Switch	- Address setting - Baud rate setting
Standards	EN50081-2 EN50082-2 EN61010-1
Approvals	CE, UL-CSA

#### CONNECTIONS

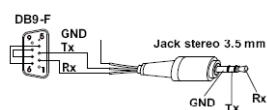
##### RS485 and power supply



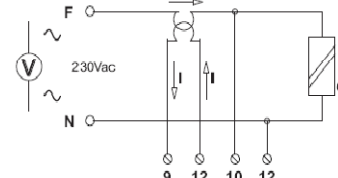
##### Inputs



##### RS232 (cable for front connector)



##### Inputs (with TA)



#### APPLICATION CASE

##### Monophase network monitoring with output signal re-transmission

