

# Test 4

SIGNAL SIMULATOR & MULTIMETER HANDHELD  
FOR ANALOG SIGNALS



**NEW!**  
Ramp  
Generator  
on Up/Down  
Signals

**Input /  
Output  
0..21mA  
0..11V**

**Low  
Consumption  
OLED Display**

**Multifunction  
Encoder  
Button**

**Antislip  
Cover**

**Accuracy  
0.1%**

**Rechargeable  
Batteries**

**Multi  
Language  
Display**

***THE BEST ACCURACY AND RELIABILITY  
WITH AN USER FRIENDLY INTERFACE***

 **SENECA**  
www.seneca.it

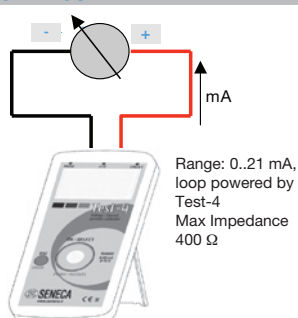
# Test 4

## SIGNAL SIMULATOR & MULTIMETER HANDHELD FOR ANALOG SIGNALS

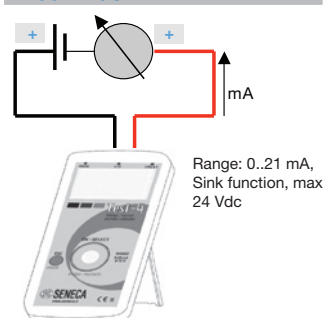
### CONNECTIONS

#### SIGNAL GENERATION

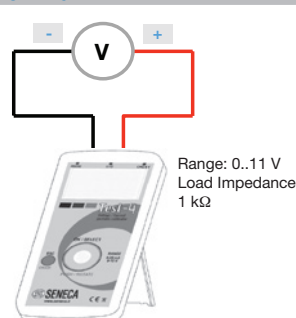
##### ACTIVE CURRENT



##### PASSIVE CURRENT

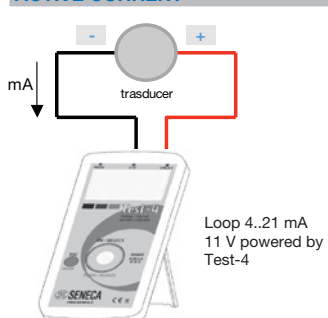


##### VOLTAGE

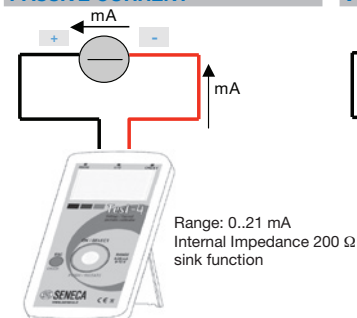


#### SIGNAL MEASUREMENT

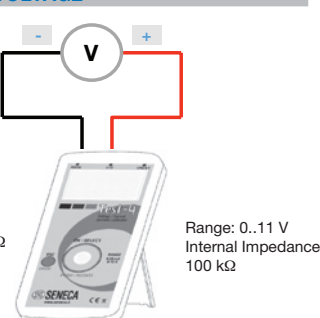
##### ACTIVE CURRENT



##### PASSIVE CURRENT

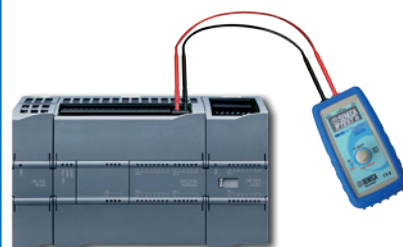


##### VOLTAGE



### APPLICATION NOTE

#### SIMULATION SIGNALS FROM THE FIELD



#### CALIBRATION PROCESS FOR SENSORS, ACTUATORS, TURNING, PLC, REGULATORS, ETC.



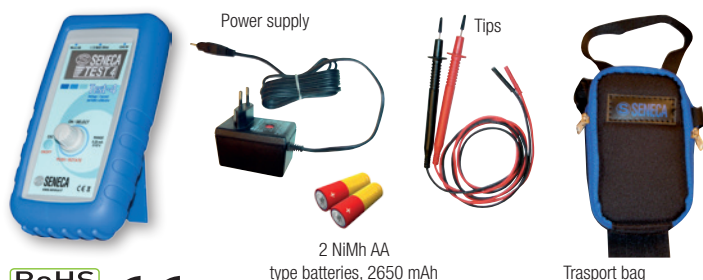
### TECHNICAL FEATURES

| GENERAL DATA           |                                                                                                                                 |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Power supply           | 2 NiMH AA type batteries, 2650 mAh<br>Lifetime: 8 hours (min, max load), 20 hours (typical)<br>100-240 Vac with battery charger |
| Protection degree      | IP 20                                                                                                                           |
| Operating temp.        | 0..50°C (recommended)                                                                                                           |
| Humidity               | 30..90 % non-condensing                                                                                                         |
| Dimensions             | 140 x 75 x 33 mm                                                                                                                |
| Weight                 | 250 g                                                                                                                           |
| Isolation              | Battery powered, intrinsically isolated                                                                                         |
| Rejection              | 50-60 Hz                                                                                                                        |
| Frequency              | 10 Hz                                                                                                                           |
| Input / Output signals | Voltage measurement / generation : 0..11 V<br>Current measurement / generation : 0..21 mA                                       |
| Accuracy               | 0.1% for each type of input / output                                                                                            |
| Resolution             | 0.002 mA 0.001 V                                                                                                                |
| Norms                  | EN61000-6-4; EN61000-6-2; EN61010-1                                                                                             |

#### CONTROLS

|                |                                                                                                                                                                                                                                                                        |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Buttons        | ESC / ON/OFF – general navigator<br>SELECT (rotation) – current / voltage variation<br>SELECT (pressure) – coefficient variation (value* 10N, N=0,1,2,3)                                                                                                               |
| Language       | Italian, english, french, german, spanish                                                                                                                                                                                                                              |
| Contrast       | 15 levels                                                                                                                                                                                                                                                              |
| Screensaver    | Display vertical scroll after 7 minutes inactivity<br>Restart pressing ESC / ON / OFF button                                                                                                                                                                           |
| Function menu  | General setup (function mode selection, signal type, language, contrast, display, encoder sensitivity)<br>Signal generator (voltage / current / passive current selection),<br>Measure (voltage / current)<br>Generation of currents and voltages in Ramp mode Setting |
| Errors display | <b>Over voltage</b> (V > 11 V)<br><b>Under voltage</b> (V < -0,2 V)<br><b>Over current</b> (> 21 mA)<br><b>Under current</b> (< -0,1 mA)<br><b>Blinking value</b> (signal generation fault)                                                                            |

#### SUPPLIED ACCESSORIES



#### INTERFACES

|                |                                                                                        |
|----------------|----------------------------------------------------------------------------------------|
| Input / Output | 2 mm diameter tips                                                                     |
| Power supply   | Battery charge connector, battery compartment on the back side, under the rubber cover |
| microUSB port  | for next purposes                                                                      |

#### ORDER CODES

| Codes                 | Description                                                |
|-----------------------|------------------------------------------------------------|
| Model TEST-4          | mV-V-mA generator & handheld meter                         |
| Options /T            | Certificated ISO 9001 calibration service                  |
| Accessories TEST-4-PK | Precision probes set with adapters and crocodile terminals |



Via Austria, 26 • 35127 Padova - (I) - Tel. +39 049 87.05.359  
Fax +39 049 87.06.287 • [www.seneca.it](http://www.seneca.it) • [info@seneca.it](mailto:info@seneca.it)

The material in this document is for information only and is subject to change without notice. While reasonable efforts have been made in the preparation of this document to assure its accuracy, SENECA assumes no liability resulting from errors or omissions, or from the use of the information contained herein. Reproduction is forbidden unless authorized.