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SAFETY



Nieaf-Smitt Installation Technology

# Test- & measuring equipment



Test tools • Environmeters • Multimeters • Current clamps





Nieaf-Smitt Installation Technology

# Test- & measuring equipment



## Nieaf-Smitt Installatie

Company NIF (Netherlands Instrumentation Factory, later to become Nieaf-Smitt) started in 1900 as one of the first companies in the world with the design and manufacturing of instrumentation for electrical values.

Since then Nieaf-Smitt has served the ongoing upgrading, upscaling, modernization and technical refinement in the installation sectors. The complexity and diversity in the installation sectors demands the specialism that Nieaf-Smitt provides by offering reliable instrumentation securing the energy efficiency and safety demands installations and appliances.

Design, manufacturing and supply of portable test and measuring equipment, characterized by quality and dependability. The portfolio of test tools, digital multimeters, current clamps, appliance and installation testers and power analysers is focused on solving the industry demands.

Worldwide availability is assured by a network of professional, trained and dedicated subsidiaries, distributors and agents, offering local service and support.

Mors Smitt has certified quality and environmental management systems according to the leading international standards. ISO 9001:2000 and ISO 14001 are obtained.

Mors Smitt not only has a clear eye directed at reliability, dependability, safety and cost-effectiveness, but also to the demands of our planet. Environmental consciousness is woven closely into design, manufacturing and commercial operations. The company is contributing to the safety of the world in more ways than one.



All portable test- and measuring equipment are marketed under the Nieaf-Smitt brand.



Mors Smitt is part of Wabtec Corporation, the NYSE stock exchange listed, global supplier of highly engineered components and solutions for rail and selected industrial markets. Operations in 17 countries and world wide sales in over 100 countries. Wabtec Corporation holds over 1.200 patents and has world class internal processes based on lean manufacturing and continuous improvement principles (Wabtec Performance System).

Within the Wabtec group Mors Smitt has its own name & identity and is focused on satisfying the needs of customers in the power grid, industry and installation sectors.

Utrecht, April 2016

Mors Smitt B.V. verbetert continu haar producten en diensten. Specificaties kunnen wijzigen zonder aankondiging. Aan de specificaties kunnen geen rechten worden ontleend.

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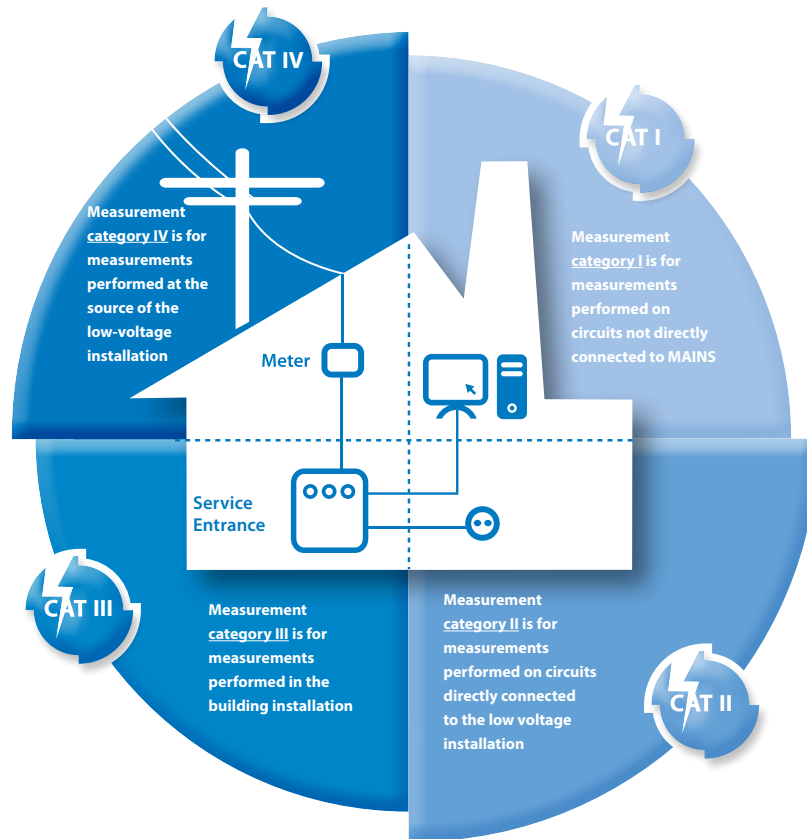
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Quality and safety are the drivers  
of our thinking and doing

## Overvoltage installation categories according IEC 61010-1



**CAT I**  
Examples are measurements on circuits not derived from MAINS, and specially protected (internal) MAINS-derived circuits.



**CAT III**  
Examples are measurement on distribution boards, circuit breakers, wiring, including cables, busbars, junction boxes, switches, socket-outlets in the fixed installation, and equipment for industrial use, also stationary motors with permanent connection to the fixed installation are in this safety category.



**CAT II**  
Examples are measurement on household appliances, portable tools and similar equipment.



**CAT IV**  
Examples are electricity meters and measurements on primary overcurrent protection devices and ripple control units.



This product has IP64 protection class



This product can measure True RMS values



This product is in accordance with the IEC / EN 61010-1 norm

# Calibration and support

## Calibration & repair services

- Calibration of all brands and types and measurement equipment
- Repair of all Nieaf-Smitt equipment

### Calibration

Nieaf-Smitt has a professional calibration center. All electrical measurement equipment can be calibrated (multimeters, current clamps, temperaturemeters, installation testers, power meters, safety testers, thermal cameras, etc.)

After free registration, you will receive automatically an anual notice to have your instruments calibrated. This way you do not have to worry about the validity of the calibration of your instruments.

### Repairs

Nieaf-Smitt provides a modern state of the art repair division, meeting the ISO 9001 and ISO 14001 standards. Our repair department is run by experienced technicians and provide an rapid and accurate service. Over the years Nieaf-Smitt have gained much know-how in this field, resulting in optimizing our support and services.

## Support

- Helpdesk to support the operation of all Nieaf-Smitt equipment and matching software

### Helpdesk

Nieaf-Smitt has gained a lot of experience over the years. On the support section of our website you will find extensive information on frequently asked questions, application examples, information on education and training and instructions can be found at <http://www.nieaf-smitt.com/support>.

Telephone contact is also possible, for more information check [www.nieaf-smitt.com/support](http://www.nieaf-smitt.com/support) and click on the help and support button for contact details and opening hours of the helpdesk.







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## Test tools

Test tools are instruments which are useful to everybody working with electricity. These meters excel in simplicity.

For indication of a live phase we offer the non-contact voltage detectors. Whether you want to measure voltage or recognise the phase sequence and even automatic measurement of voltage, current and resistance, the test tools are useful for everybody!








# Instruments

## Selection diagram

For safe and quick detection of voltage presence, four voltage detectors are available. Approaching a voltage leading part, the voltage detectors will indicate this in several ways. The VoltSpotter indicates optical, the VoltBeeper, VoltSafe and VoltPointer indicate both optical and acoustic signal. The VoltSafe and the VoltPointer are not only instruments for voltage detection but also for **non-voltage** detection.

The line of voltage testers EazyVolt offer the ability to measure and indicate the exact voltage (AC/DC), phase indication, phase rotation and continuity.

The EazyAmp is a versatile electrical tester for measuring current up to 200A in a CAT IV 600 V environment. All the models and the differences between them are shown in the selection diagram below.

								
	VoltSpotter II	VoltBeeper II	VoltSafe II	VoltPointer II	EazyVolt	EazyVolt <sup>PLUS</sup>	EazyAmp	EazyPhase
Indication	LED	LED	LED	LED	LED	Digital	Digital	LED
Optical indication voltage presence	•	•	•	•	•	•	•	
Acoustic indication voltage presence		•	•	•	•	•	•	
Absence of voltage detection	•	•	•	•			•	
Non-voltage detection			•	•				
RCD-check					•	•		
Self-test			•	•	•	•		
Flashlight/torch				•	•	•		
Voltage AC	1	1	1	1	•	•	•	
Voltage DC					•	•	•	
Resistance						•	•	
Current AC							•	
Phase sequence	1	1	1	1	•	•		•
Hold function							•	
Overtoltage category	CAT IV 600 V	CAT IV 600 V	CAT IV 600 V	CAT IV 600 V	CAT IV 600 V	CAT IV 600 V	CAT IV 600 V	CAT IV 600 V
Battery	2x AAA 1.5 V	2x AAA 1.5 V	2x AAA 1.5 V	2x AAA 1.5 V	2x AAA 1.5 V	2x AAA 1.5 V	1x LR61 9 V	1x LR61 9 V
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<sup>1</sup> detection only

## VoltSpotter II

Article number: 626000778



### Voltage detector

the VoltSpotter II, an automatic non-contact voltage detector, will indicate the presence of AC voltage by phase detection. An optical signal is given upon voltage presence, without touching the cable.

When approaching an AC voltage, the LED in the partly transparent tip of the test tool will illuminate bright red. With the wide range of 100 – 1000 VAC and the stable design is determination of phases guaranteed. The VoltSpotter II can be used in many service purposes, for detection of cable breach etc. The slim pen size shape makes the VoltSpotter quick and easy in use and storage.

### Features

- Non contact voltage detection
- Optical signal when voltage is detected
- Phase detection

### Including

- Batteries
- Manual

### Specifications

Function	Range
Voltage detection	100...1000 VAC

Specifications	
Supply	2x AAA 1.5 V batteries
IP protection	IP64
Overvoltage category	CAT III 1000 V / CAT IV 600 V
Drop proof	1 meter
Standard	EN 61010-1
Dimensions	155 x 20 x 16 mm
Weight	± 45 g

## VoltBeeper II

Article number: 626000779



### Voltage detector

VoltBeeper II is an automatic non-contact voltage detector with optical and acoustic signal.

When approaching an AC voltage, the LED in the partly transparent tip of the test tool will illuminate bright red as well as a beeping signal is given. This is very convenient for detection under bright (sunny) circumstances or hidden locations.

The range of 100 – 1000 VAC makes the VoltBeeper II universal applicable. As the acoustic signal is approx. 65 dB, the tester can also be used in industrial

### Voltage detector

- Non contact voltage detection
- Optical and acoustical signal when voltage is detected
- 100 - 1000 VAC

### Including

- Batteries
- Manual

### Specifications

Function	Range
Voltage detection	100...1000 VAC

Specifications	
Supply	2x AAA 1.5 V batteries
IP protectione	IP64
Overvoltage category	CAT III 1000 V / CAT IV 600 V
Drop proof	1 meter
Standard	EN 61010-1
Dimensions	155 x 20 x 16 mm
Weight	± 45 g

## VoltSafe II

Article number: 626000783



### Voltage detector

The VoltSafe II is a unique instrument, being a voltage detector and non-voltage detector. The detector is always activated and gives a (red) optical and an acoustic signal upon the presence of AC voltage.

By activating the on/off switch, the correct operation of the detector is checked (selftest). A single beep will sound and the probe tip will illuminate shortly. Both the PCB as well as the battery power are tested. The proper functioning of the unit is proved and a green LED is given for approx. 15 s. Upon detection of voltage the VoltSafe II will indicate both optical and acoustic. Since its functionality was tested, no indication of the VoltSafe II means no detection of voltage; non-voltage detection.

With the range of 100 – 1000 VAC and the acoustic signal of 65 dB, the VoltSafe II is a universal instrument and can be used in many service purposes.

### Voltage detector

- Voltage detector up to 1000 VAC
- Non voltage detection
- Self-test by on - off switch
- Optical and acoustical signal when voltage is detected

### Including

- Batteries
- Manual

### Specifications

Function	Range
Voltage detectie	100...1000 VAC

Specifications	
Supply	2x AAA 1.5 V batteries
IP protection	IP64
Overvoltage category	CAT III 1000 V / CAT IV 600 V
Drop proof	1 meter
Standard	EN 61010-1
Dimensions	128 x 28 x 16 mm
Weight	± 55 g

## VoltPointer II

Article number: 626000784



### Voltage detector

The VoltPointer II has equal functions to the VoltSafe II; it is a voltage detector and non-voltage indicator. The detector is always activated and will automatically give a (red) optical and an acoustic signal upon the presence of voltage.

By activating the on - off switch, the correct operation of the detector is checked (selftest). A single beep will sound and the probe tip will illuminate shortly. Both the pcb as well as the battery power are tested. The proper functioning of the unit is proved and a green LED is given for approx. 15 s.

In the tip of the VoltPointer II, a bright LED is positioned that can be switched on manually and used as a (small) flashlight/torch. This makes the VoltPointer very suitable for use in poorly lit locations such as switch boards, distribution boxes etc.

### Features

- Non voltage detection
- Optical and acoustical signal when voltage is detected
- Selftest by on - off switch
- 50 – 1000 VAC
- Flashlight/torch

### Including

- Batteries
- Manual

### Specifications

Function	Range
Voltage detection	100...1000 VAC

Specifications	
Supply	2x AAA 1.5 V batteries
IP protection	IP64
Overtoltage category	CAT III 1000 V / CAT IV 600 V
Drop proof	1 meter
Standard	EN 61010-1
Dimensions	128 x 28 x 16 mm
Weight	± 55 g

## EazyVolt

Article number: 626000721



### Recommended accessories



**EVH-I holster**  
626000620



**Extra probe tips 2 - 4 mm**  
626000624

### Voltage tester

The EazyVolt is a reliable **7-in-1** automatic voltage tester up to 750 V, with the following functions:

- Measuring AC voltage
- Measuring DC voltage
- Phase detection
- Continuity
- Phase rotation
- RCD test by phase-earth (once charged)
- Selftest by switch

### Features

- Fully automatic
- Audible sound (when battery is OK)
- Flashlight/torch by ultra bright LED
- 3 Phase rotation by 2 probes
- Selectable probe tips 2 - 4 mm
- Waterresistant (IP65)
- Fail safe (no battery for VAC/DC measurement)
- Schuko compliant (19 mm)
- 1 hand operation by IP2X
- IP2X

### Including

- Batteries
- Manual

### Specifications

Function	Range
Voltage	12...750 VAC/DC
RCD check	
Continuity	< 200 K $\Omega$
Frequency	45...65 Hz

Specifications	
Auto power on	> 12 VAC/DC
LED resolution	12, 24, 50, 120, 230, 400, 750 V
Voltage detection	Automatic
Response time	< 0.1 s
Supply	2x AAA 1.5 V batteries
IP protection	IP65
Overvoltage protection	CAT III 1000 V / CAT IV 600 V
Drop proof	1 meter
Standard	EN 61010-1 / -031, EN 61243-3, EN 60529, EN 61557-7/ -10/ -1, EN 61326, EN 55011
Dimensions	239 x 68 x 29 mm
Weight	$\pm$ 220 g (incl. batteries)

## EazyVolt<sup>PLUS</sup>

Article number: 626000722



### Recommended accessories



**EZH-I holster**  
626000620



**Extra probe tips 2 - 4 mm**  
626000624

### Voltage tester

The EazyVolt<sup>PLUS</sup> is a reliable 9-in-1 automatic digital voltage tester up to 750 V, with the following functions:

- Measuring AC voltage
- Measuring DC voltage
- Resistance
- Frequency
- Phase detection
- Continuity and diode
- Phase rotation
- RCD test by phase-earth (once charged)
- Selftest by switch

### Features

- Fully automatic
- Audible sound (when battery is OK)
- Flashlight/torch by ultra bright LED
- 3 Phase rotation by 2 probes
- Selectable probe tips 2 - 4 mm
- Dual display for VAC and Hz
- Water proof (IP65)
- Fail safe (no battery for VAC/DC measurement)
- Schuko compliant (19 mm)
- 1 hand operation by IP2X

### Including

- Batteries
- Manual

### Specifications

Functions	Range
Voltage	12...750 VAC ( $\pm 1.3\% + 5d$ ) 12...750 VDC ( $\pm 1.0\% + 2d$ )
Resistance	0...2 k $\Omega$ ( $\pm 2.0\% + 2d$ )
RCD check	
Diode	
Continuity	< 200 $\Omega$
Frequency	1...999 Hz ( $\pm 0.3\% + 5d$ )

Specifications	
Auto power on	> 12 VAC/DC
LED resolution	1 V
Voltage detection	Automatic
Response time	< 0.1 s/bar < 2 s /RDG
Supply	2x AAA 1.5 V batteries
IP protection	IP65
Overvoltage category	CAT III 1000 V / CAT IV 600 V
Drop proof	1 meter
Standards	EN 61010-1 / -031, EN 61243-3, EN 60529, EN 61557-7/ -10/ -1, EN 61326, EN 55011
Dimensions	239 x 68 x 29 mm
Weight	$\pm 220$ g (incl. batteries)



## EazyAmp

Article number: 626000706



### Recommended accessories



**EVH-I holster**  
626000620



**Bag EazyAmp**  
626000483

### Current clamp

The EazyAmp is a 2 pole voltage tester and a very user-friendly current clamp.

With the open jaw, currents up to 200 AAC can be measured quickly. The tester can also be used for AC/DC voltage measuring, resistance measuring and continuity test with acoustic indication.

Unique is the new VoltSense. This feature gives you the opportunity to easily detect whether there is voltage present or not.

### Kenmerken

- Compact open jaw (for narrow spaces)
- Continuity and diode
- Current up to 200 AAC
- Resistance measurement
- Non contact voltage detection - VoltSense
- Hold function

### Inclusief



- Batteries
- Manual

Test leads

### Specifications

Function	Range
Voltage	600 VAC/DC
Current	200 AAC
Resistance	2 k $\Omega$
Continuity	< 25 $\Omega$ sound signal

Specifications	
Auto power on	> 12 VAC/DC
LED resolution	1 V
Voltage detection	Automatic
Response time	< 0.1 s/bar < 2 s /RDG
Supply	1x 9 V 6LR61 batterie
IP protection	IP40
Overvoltage category	CAT III 1000 V / CAT IV 600 V
Drop proof	1 meter
Standards	EN 61010-1, EN 55022, IEC 801-2, IEC 801-3, IEC 801-4
Dimensions	188 x 67 x 41 mm
Weight	$\pm$ 265 g (incl. battery)

## EazyPhase

Article number: 626005051



### Phase- / motor rotation tester

The EasyPhase is a simple 4-in-1 test tool for indication of phase rotation, indication of an open phase and field rotation indication of motors. The tester is ideal for installing conveyor lines, pump systems and interconnected drivers.

The tester is battery operated and is supplied with leads (red, yellow and blue), alligator clamps, manual, battery and vinyl bag.

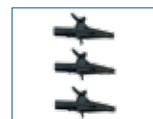
### Features

- Determine rotary field direction
- Determine motor connection
- Indication of open phase
- Magnetic field detection

### Including



Test leads



Alligator clamps



Bag

- Batteries
- Manual

### Specifications

Function	Range
Voltage	120...600 VAC
Frequency	2...400 Hz

Specifications	
Power consumption	Approx. . 3.5 mA at phase rotation, approx. 20 mA at motor rotation direction
Supply	1x 9V battery
Overvoltage category	CAT III 600 V
Standard	EN 61010-1
Dimensions	275 x 124 x 61 mm
Weight	± 130 g

## LineSpotter

Article number: 626000553



## LineSpotter

The LineSpotter is a detection device, designed to locate cables and metal plumbing in walls, floors or ceilings and to identify fuses/mcb's.

### Features

- Tracing of cables in walls, ceilings, floors or ground up to 20 cm
- Indication under live and not connected situations
- Location of cable interruptions or short circuits
- Location of hidden sockets or distribution boxes
- Locating fuses and assignment to circuits
- Determine individual wires in a bundle
- Tracing of plumbing or other conductive loops
- Special clamp for high accuracy by determination of fuses

The principle of the LineSpotter is based on a transmitter and receiver. The transmitter sends a signal of 10.6 kHz, which can be traced or located with the receiver. The receiver can be adjusted into 3 sensitivity modes, low - middle - high. The additional trimmer performs the finetuning.

### Including



Test probes



Alligator clamps

- Bag
- Test leads
- Batteries
- Manual



### Recommended accessories



**Current clamp adapter**  
626000309



**Mini current clamp adapter**  
626000770  
(art.nr. 626000687 is necessary)



**Selective probe**  
626000654

### Specifications

Transmitter	
Supply	4x AA 1.5 V batteries
Low battery indicator	Yes
Dimensions	80 x 50 x 150 mm
Weight	± 280 g

Receiver	
Standard	EN 61010-1
Signal	10.6 kHz
Average injected current	1 A
Supply	1x 9 V battery
Low battery indicator	Yes
Dimensions	45 x 45 x 180 mm
Weight	± 150 g

## EazyLAN

Article number: 626000810



### UTP/STP RJ45 LAN cable tester

The EazyLAN is a hand cable tester suitable for fast and easy testing of UTP/STP network cabling (RJ45).

The EazyLAN is equipped with a manual and auto test mode and gives the user a good/fault indication at the end of a test.

If the cable has failed the EazyLAN will indicate via LEDs whether the cable is broken, shorted or has a crossed cable conductors, and also which conductors are affected.

An audible beep will indicate if the tested cable has passed or failed the test.

The tester is battery operated.

### Features

- Automatic and manual test sequence
- Good / fault indication
- Auto power off
- Suitable for RJ45 UTP & STP cables

### Function

Continuity test	Good
	Fault, open
	Fault, cross
	Fault, short

### Including

- Bag
- Batteries
- Manual

### Specifications

Specification	
Supply	1x 9 V battery
Indicator empty battery	Yes
IP protection	IP50
Standard	EN 61000-4 2/3
Dimensions	103 x 77 x 31 mm
Weight	165 g

## Test tools accessories



**Holster**  
(EazyAmp, EazyVolt series  
and EazyTester)

Article number:  
626000620



**Bag**  
(EazyAmp, EazyVolt series  
and EazyTester)

Article number:  
626000483



**Test lead**  
(with 2 mm probe)

Article numbers:  
626006000 (red)  
626006001 (black)



**Selective probe**  
(LineSpotter)

Article number:  
626000654



**Alligator clamps 2.2 mm**

Article numbers:  
626006002 (red)  
626006003 (black)



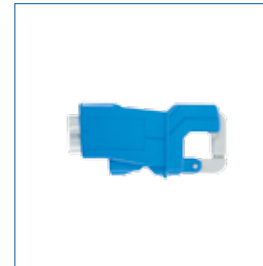
**EazyPhase test leads**

Article number:  
626005037



**Probe tips**  
(EazyVolt series)

Article number:  
626006024



**Mini current clamp adapter**  
(LineSpotter, art.nr.  
626000687 is necessary!)

Article number:  
626000770



**Adapter cable set**  
(Mini current clamp)

Article number:  
626000687

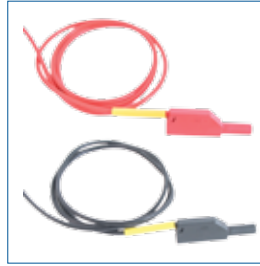
# Accessoires

## Test tools accessories



**Test leads**  
(1m, touchproof)

Article numbers:  
560410027 (red)  
560410028 (black)



**Test leads**  
(1.5 m, stackable)

Article numbers:  
560410033 (red)  
560410034 (black)



**Probe**  
(4 mm)

Article numbers:  
560410029 (red)  
560410030 (black)



**Alligator clamp**  
(4 mm)

Article numbers:  
626000314 (red)  
560410048 (black)



**Probe**  
(2 mm, short)

Article number:  
626006004



**Connector**  
(4 mm, touch proof)

Article numbers:  
626006005 (red)  
626006006 (black)



**Multi kit**  
(incl. leads, probes, clips,  
crocodile clamps)

Article number:  
560410071



**Testlead kit**  
(incl. probes)

Article number:  
560410069



**Probe kit**  
(2 probes incl. screwable  
tips 2 - 4 mm)

Article number:  
560410072



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## Environmeters

Measuring non-electrical values or better called environmental values can be of great importance or influence in many industrial circumstances. Examples of such values are temperature or relative humidity. Situations, in which such values can be important, are working environments, utilities etc.

Other values are illuminance or sound level. The illuminance level for example is important to measure at emergency exits. Nieaf-Smitt offers you a wide range of environmeters, which are easy to use and present you the measurements clearly.



# Environmeters

## Selection diagram

In answer to the need for measuring non-electrical values, Nieaf-Smitt presents six different testers within this program.

For measuring temperature levels, four different meters are available. Whether you need to measure with infrared or a sensor, Nieaf-Smitt offers you the most easy to handle meters in the market.

					
	NIT880	NI TH183	NI L204	NI S102	NI T8820
Temperature	-50 ° C...+280 ° C	-20 °C...+60 ° C			20 °C...+1400 ° C
Luminance			0...200.000 lux		0...20.000 lux
Sound level				30...130 dB	35...130 dB
Relative humidity		•			•
Infrared	•				
Auto power off	•	•	•	•	•
Hold function	•	•	•	•	•
LCD backlight	•	•		•	
Low battery indication	•	•	•	•	•
Battery	1x 9 V	1x 9 V	1x 9 V	1x 9 V	1x 9 V
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## NI T880

Article number: 626000591



### Infrared thermometer

The infrared thermometer NI T880 is a highly compact instrument with an ergonomic grip and trigger button. This meter is one of the most compact available on the market.

The NI T880 can measure temperatures without contact. A laser pointer for indication of the measuring spot is included within the instrument and can separately be switched on/off.

### Features

- Temperature range -50 °C... 280 °C / -58 °F... 536 °F
- Class II laserproduct
- LCD backlight
- Auto power off
- Data hold

### Including



- Battery
- Manual

Bag

### Specifications

Function	Range	Accuracy
Temperature	-50 °C...+280 °C -58 °C...+536 °C	± 2 °C
Laser wave length	630 ~ 670 mm	± 2 %

Specifications	
Auto power off	after 7 s
Laser	Output <1 mW
Resolution	1 °C
Supply	1x 9 V battery
Dimensions	160 x 82 x 41.5 mm
Weight	± 180 g

## NI TH183

Article number: 626000589



### Temperature and humiditymeter

The NI TH183 is a temperature- and humiditymeter in one. It is easy to check a room meeting its standard.

The meter measures up to 60°C. Relative humidity can be measured to 99,9% RH. The NI TH183 has a memory which gives the user the opportunity to analyse the results for measurements over a longer period.

### Kenmerken

- Capacitive sensor
- LCD backlight
- Min - max hold

### Including



- Battery
- Manual

Bag

### Specifications

Function	Range	Accuracy
Temperature	-50 °C...+700 °C	± 0.8 °C
	-58 °F...+1292 °F	± 1.5 °F
Humidity	1.0 %...99.9 % RH	± 2.5 % bij 30...80 %

Specifications	
Supply	1x 9 V battery
Dimensions	200 x 55 x 38 mm
Weight	± 165 g

## NI L204

Article number: 626000593



### Luminance meter

The compact shaped digital light meter NI L204 is a user friendly instrument with integrated sensor. The meter can be controlled by one hand.

The measured value is indicated in Lux or Fc (Foot-candles) The maximum range of 200.000 Lux or 20.000 Fc, makes it a versatile meter that can be used in many situations.

### Kenmerken

- Lux and FC, max range 200.000 lux or 20.000 Fc
- Max hold
- Auto power off
- Low battery indication
- Data hold

### Including



- Battery
- Manual

Bag

### Specifications

Function	Range	Accuracy
Luminance	0...200.000 Lux / 0...20.000 Fc	± 3 %

Specifications	
Sampling rate	2.5 times per second
Standard	Pollution degree 2, JIS 1609 and CNS 5119 A class specifications
Supply	1x 9 V battery
Dimensions	170 x 55 x 38 mm
Weight	± 250 g

# Environmeters

## NI S102

Article number: 626000594



### Soundlevel meter

The NI S102 is a handheld compact sound level meter with automatic ranging (LO/MED/HI).

Because of the integrated sensor/probe, the instrument can be used with one hand. On demand, the sound level meter can be switched between slow or fast reading and A of C frequency.

### Features

- Automatic ranging
- LCD Backlight
- Min - max hold
- Auto power off
- Slow and fast reading

### Including



Sponge



Bag

- Battery
- Manual

### Specifications

Function	Range	Accuracy
Soundlevel	LO: 30 ~ 80 dB MED: 50 ~ 100 dB HI: 80 ~ 130 dB	$\pm 1.5$ dB (ref 94 dB @ 1kHz)

Specifications	
Auto power off	20 min
Frequency	A/C
Resolution	0.1dB
Standard	IEC 651 type 2, ANSI S1.4 type 2
Supply	1x 9 V battery
Dimensions	280 x 80 x 32 mm
Weight	$\pm 300$ g

## NI T8820

Article number: 626000595



### 4-in-1 environment meter

The NI T8820 is a complete 4-in-1 environment meter for measuring luminance (Lux), temperature (°C/°F), humidity (RH) and sound level (dB). Despite this variety of functions the instrument is compact and handheld.

The sound level sensor is integrated in the housing and the sensor for humidity measurement is a disconnectable probe. The temperature probe (type K) and the lux meter sensor are separately connectable to the housing of the instrument.

### Features

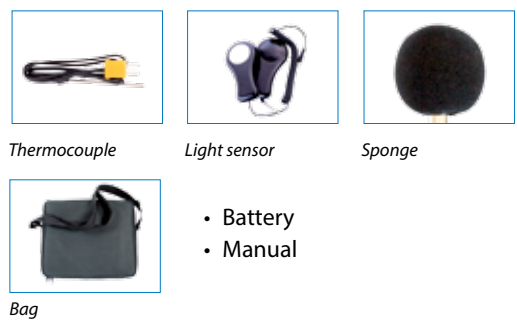
- 4-in-1 meter
- Type K temperature probe
- Max hold
- Data hold
- Manual selection
- Auto power off



### Specifications

Function	Range	Resolution	Accuracy
Luminance	20, 200, 2.000, 20.000 lux	1 lux (reading x 10)	± (5 % rdg + 10d)
Temperature	-20 °C...+1400 °C -4 °F...+200 °F	0.1 °C / 1 °C	± (3.5 % rdg + 2 °C)
Humidity	25...95 % RH	0.1 % RH	+5 % RH
Sound			
A LO (low)	35...100 dB	0.1 dB	+3.5 dB
B HI (high)	65...130 dB		
C LO (low)	35...100 dB		
D HI (high)	65...130 dB		

### Inclusief

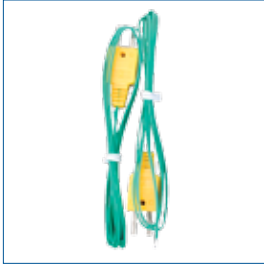


- Battery
- Manual

Specifications	
Supply	1x 9 V battery
Dimensions	252 x 64 x 32.5 mm
Weight	± 330 g

# Environmeters

## Environment accessories



**Thermocouple type K**  
(NI T82 and NI T8820)

Article number:  
626006007



**Spons**  
(NI S102)

Article number:  
626006026



**Kapje**  
(NI L204)

Article number:  
626006025



SERVING  
SAFETY

## Digital multimeters

Since its invention, the multimeter is a vital instrument for its users and has been developed logically from analogue indicator to an accurate (digital) measuring instrument with many functions.

Many integrated functions make these versatile meters suitable for different markets and users. The instruments for instance can be used for measuring electronics, electrical installations, machinery, appliances etc.



# Multimeters

## Selection diagram

Nieaf-Smitt is one of the first manufacturers of multimeters and therefore very experienced in this market. The range of products is build up by a 'simple' and basic multimeter for service and repair activities. Followed by more sophisticated meters with True RMS, graphic display and even computer interface for PC compatibility.



	Eazy MM	NI 61	NI 62	NI 72	NI 98III	NI 99III	NI 305R	NI 405 <sup>PLUS</sup>
Display resolution	5000d	2000d	2000d	6000d	6000d	6000d	40.000d	40.000d
Voltage AC	•	•	•	•	•	•	•	•
Voltage DC	•	•	•	•	•	•	•	•
Resistance	•	•	•	•	•	•	•	•
Current AC			•	•	•	•	•	•
Current DC			•	•	•	•	•	•
True RMS				•	•	•	•	•
Continuity	•	•	•	•	•	•	•	•
Frequency	•		•	•	•	•	•	•
Capacity	•		•	•	•	•	•	•
Diode test	•	•	•	•	•	•	•	•
Temperature						•	•	•
Isolatiweerstand								•
Peak hold						•	•	•
Data hold	•	•	•	•	•	•	•	•
Min - max hold			•	•	•	•	•	•
Backlight					•	•	•	•
Auto power-off	•	•	•	•	•	•	•	•
Non-contact voltage detection		•	•		•	•		
Protective holster		•	•	•	•	•	•	
Stand		•	•	•	•	•	•	•
Hanging kit					•	•	•	
Analoge bargraph					•	•	•	•
PC link							•	
Supply	2x 1.5 V	2x 1.5 V	2x 1.5 V	1x 9 V	1x 9 V	1x 9 V	1x 9 V	6x 1.5 V
Weight	115 g	320 g	320 g	380 g	460 g	460 g	685 g	631 g
Overvoltage category	CAT II 600 V CAT III 300 V	CAT II 1000 V CAT III 600 V	CAT II 1000 V CAT III 600 V	CAT II 1000 V CAT III 600 V	CAT III 1000 V CAT IV 600 V	CAT III 1000 V CAT IV 600 V	CAT II 1000 V CAT III 600 V	CAT III 1000 V CAT IV 600 V
Art. no.	626005039	626005041	626005042	626005029	626005047	626005048	626005005	626005050
Page	35	36	37	38	39	40	41	42



## EazyMM

Article number: 626005039



### Multimeter

Topclass, pocket size functional digital multimeter. Due to its format its ideal to be used everywhere.

- AC/DC voltage
- Resistance
- Diode test
- Continuity
- Capacitance
- Frequency

### Features

- Data hold
- Auto ranging
- 1 meter drop proof
- Large LCD display

### Including

- Leather protection shell
- Batteries
- Manual

### Specifications

Functions	Range	Accuracy
Voltage	600 VAC 600 VDC	$\pm 0.9\% + 5d$ $\pm 0.7\% + 2d$
Resistance	40 M $\Omega$	$\pm 0.5\% + 5d$
Frequency	5000 MHz	$\pm 0.3\% + 5d$
Capacity	100 $\mu$ F	$\pm 2.9\% + 5d$

Specifications	
Display resolution	5000d
Drop proof	1 m
Overvoltage category	CAT II 600 V / CAT III 300 V
Standard	EN 61010-1
Supply	2x 1.5 V LR44 batteries
Dimensions	112 x 56 x 12 mm
Weight	$\pm 115$ g

# Multimeters

## NI 61

Article number: 626005041



### Recommended accessories



**Bag**  
626006033

### Digital multimeter

The NI 61 digital multimeter is a user friendly, compact and ergonomic multimeter. The multimeter is excellent for service applications and contains several functions. The rugged housing has a built-in stand (for work bench application).

The multimeter is equipped with a VoltSense function, which provides the user the opportunity to get an indication whether voltage is present or not, without making contact with the selected object.

### Features

- VoltSense
- AC/DC voltage
- Resistance
- Diode test
- Hold function
- Compact housing

### Including



Alligator clamp



Test leads

- Batteries
- Manual

### Specifications

Function	Maximum range	Accuracy
Voltage	750 VAC 1000 VDC	± 0.5 % + 2d
Resistance	20 MΩ	± 1.0 % + 3d

Specifications	
Display resolution	2000d
Overvoltage category	CAT II 1000 V / CAT III 600 V
Standard	EN 61010-1
Supply	2x 1.5 V AAA batteries
Dimensions	156 x 74 x 44 mm
Weight	± 320 g (incl. batteries)

## NI 62

Article number: 626005042



### Digital multimeter

The NI 62 digital multimeter is a user friendly, compact and ergonomic multimeter. The multimeter is excellent for service applications, contains several functions and is easy to use.

The multimeter is equipped with a VoltSense ability, which provides the user the opportunity to get an indication whether voltage is present or not, without making contact with the selected object. Besides non-contact voltage detection the NI 62 is able to measure AC/DC voltage, current up to 10 AAC/DC and resistance.

### Features

- VoltSense
- AC/DC voltage
- AC/DC current
- Resistance
- Frequency
- Min-max hold
- Diode test

### Including



Alligator clamp



Test leads

- Batteries
- Manual



### Recommended accessories



Bag  
626006033

### Specifications

Function	Maximum range	Accuracy
Voltage	750 VAC 1000 VDC	$\pm 1.5\% + 5d$ $\pm 0.5\% + 2d$
Current	10 AAC 10 ADC	$\pm 1.0\% + 3d$ $\pm 1.5\% + 5d$
Frequency	20 MHz	$\pm 0.01\% + 1d$
Resistance	20 M $\Omega$	
Capacity	2 mF	$\pm 1.9\% + 8d$

Specifications	
Display resolution	2000d
Overvoltage category	CAT II 1000 V / CAT III 600 V
Standard	EN 61010-1
Supply	2x 1.5 V AAA batteries
Dimensions	156 x 74 x 44 mm
Weight	$\pm 320$ g (incl. batteries)

# Multimeters

## NI 72

Article number: 626005029



### True RMS digital multimeter

The NI 72 is a compact True RMS multimeter with a wide range of possibilities. This makes the NI 72 a perfect meter for users who want just that little bit extra.

The utility case has a removable protective holster with built-in stand (for workbench applications).

### Features

- True RMS
- AC/DC voltage
- AC/DC current
- Resistance
- Capacitance
- Diode test
- Min-max hold
- Data hold

### Including



Alligator clamp



Test leads

- Protective holster
- Battery
- Manual



### Recommended accessories



Bag  
626006033

### Specifications

Functions	Maximum range	Accuracy
Voltage	750 VAC 1000 VDC	± 0.9 % + 5d ± 0.5 % + 2d
Current	10 AAC 10 ADC	± 1.5 % + 5d ± 0.7 % + 2d
Frequency	60 MHz	± 0.01 % + 1d
Resistance	60 MΩ	± 0.7 % + 2d
Capacity	6 mF	± 0.9 % + 2d

Specifications	
Display resolution	6000d
Overvoltage category	CAT II 1000 V / CAT III 600 V
Standard	EN 61010-1
Supply	1x 9 V battery
Dimensions	164 x 82 x 44 mm
Weight	± 380 g

## NI 98III

Article number: 626005047



### True RMS CAT IV digital multimeter

Because of the integrated True RMS technique, the NI 98III is a very accurate, professional and excellent multimeter. Automatic detection of AC/DC voltage and AutoV LoZ functionality (suppressing "ghost" voltages) make a very complete multimeter.

A clear display with backlight and the sturdy, ergonomical shape of the housing make the instrument very user friendly. The utility case has a removable protective holster with built-in stand (for workbench applications).

### Features

- True RMS
- AC/DC voltage
- AC/DC current
- AC+DC measuring
- Resistance
- Frequency
- Capacitance
- Continuity- / diode test
- Smart hold
- Min-max hold
- CAT IV
- AutoV LoZ
- VoltSense (non-contact voltage detection)
- Autoranging
- Analogue bargraph
- Clear display

### Including



Hanging kit



Test leads

- Alligator clamp
- Protective holster
- Battery
- Manual



### Recommended accessories



Bag  
626006016

### Specifications

Function	Maximum range	Accuracy
Voltage	1000 VAC 1000 VDC	$\pm 1.5\% + 5d$ $\pm 0.09\% + 2d$
Current	10 AAC 10 ADC	$\pm 1.5\% + 3d$ $\pm 1.0\% + 3d$
Frequency	4 MHz	$\pm 0.1\% + 2d$
Resistance	40 M $\Omega$	$\pm 0.8\% + 2d$
Capacity	10 mF	$\pm 1.2\% + 2d$

Specifications	
Display resolution	6000d
Overvoltage category	CAT III 1000 V / CAT IV 600 V
Standard	EN 61010-1
Supply	1x 9 V battery
Dimensions	190 x 94 x 48 mm
Weight	$\pm 460$ g

# Multimeters

## NI 99III

Article number: 626005048



### True RMS CAT IV digital multimeter

The most complete and accurate multimeter of the 90 series is the NI 99III. This True RMS multimeter is a merge of user friendly navigation, functionality, accuracy and quality.

Because of its many functions, e.g. temperature measurement, AutoV LoZ (suppressing "ghost" voltages) and peak hold, the NI 99III is an excellent and complete digital multimeter. The utility case has a removable protective holster with built-in stand (for workbench applications).

### Features

- True RMS
- AC/DC voltage
- AC/DC current
- AC+DC measuring
- Resistance
- Frequency
- Capacitance
- Diode- / continuity
- Smart hold
- Min-max hold
- Temperature
- CAT IV
- AutoV LoZ
- VoltSense (non-contact voltage detection)
- Autorange
- Analogue bargraph
- Clear display

### Including



Hanging kit



Test leads

- Thermocouple & adapter
- Alligator clamp
- protective holster
- Battery
- Manual



### Recommended accessories



Bag  
626006016

### Specifications

Function	Maximum range	Accuracy
Voltage	1000 VAC 1000 VDC	± 1.2 % + 5d ± 0.08 % + 2d
Current	10 AAC 10 ADC	± 1.2 % + 3d ± 0.8 % + 3d
Frequency	4 MHz	± 0.1 % + 2d
Resistance	40 MΩ	± 0.8 % + 2d
Capacity	10 mF	± 1.2 % + 2d
AutoV	1000 VAC/DC	± 0.8 % + 2d
Temperature	-40 °C...+400 °C	± 1.0 % + 10d

Specifications	
Display resolution	6000d
Overvoltage category	CAT III 1000 V / CAT IV 600 V
Standard	EN 61010-1
Supply	1x 9 V battery
Dimensions	190 x 94 x 48 mm
Weight	± 460 g

## NI 305R

Article number: 626005005



### Recommended accessories



**Bag**  
626006016

### Exceptional multimeter

The NI 305R is an exceptional complete True RMS multimeter with the highest accuracy in the multimeter range of Nieaf-Smitt, this in combination with versatile functions and user friendly software makes the NI 305R a meter suitable for demanding users.

The multimeter has internal memory to save results, which can be analysed when transported to the computer. The utility case has a removable protective holster with built-in stand (for workbench applications).

### Features

- True RMS
- AC/DC voltage
- AC/DC current
- AC+DC measuring
- Resistance
- Frequency
- Capacitance
- Continuity- / diodetest
- Temperature
- Autorange
- Analoge bargraph
- Backlight

### Including



RS232 cable



Software



Thermocouple

- Alligator clamp
- Hanging kit
- Test leads
- Protective holster
- Battery
- Manual

### Specifications

Function	Maximum range	Accuracy
Voltage	750 VAC 1000 VDC	$\pm 0.7\% + 5d$ $\pm 0.06\% + 2d$
Current	10 AAC 10 ADC	$\pm 0.8\% + 8d$ $\pm 0.2\% + 4d$
Frequency	40 MHz	$\pm 0.01\% + 1d$
Resistance	40 M $\Omega$	$\pm 0.3\% + 2d$
Capacity	10 mF	$\pm 0.9\% + 2d$
Temperature	-200 °C...+1300 °C	$\pm 1.0\% + 2\text{ °C}$

Specifications	
Display resolution	40000d
Overvoltage category	CAT II 1000 V / CAT III 600 V
Standard	EN 61010-1
Supply	1x 9 V battery
Dimensions	210 x 100 x 55 mm
Weight	$\pm 685\text{ g}$

# Multimeters

## NI 405<sup>PLUS</sup>

Article number: 626005050



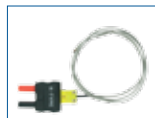
### Inclusief



Test lead with alligator clamp



2 x blind plug



Thermocouple type K

- Heavy duty test leads
- Batteries
- Manual

## Waterproof CAT IV multimeter with insulation measurement

The sturdy and waterproof (IP67) NI 405<sup>PLUS</sup> is a True RMS multimeter with built-in insulation resistance tester. Insulation resistance measurement can be measured with 4 different test voltages and can go up to 4 GΩ.

The NI 405<sup>PLUS</sup> includes useful extras such as duty cycle measurements and milliamp readings for analogue 4-20 mA current loops in industrial process monitoring.

The temperature measurement, a clear display with backlight and memory, make this meter perfectly useful for installation engineers. The meter makes it easy to perform required safety checks.

### Features

- Insulation resistance with 100 /250/500/1000 V
- Automatic AC/DC detection
- Current measurement up to 20 A (AC/DC)
- Resistance
- Frequency
- Capacitance
- Diode / continuity test
- IP 67 (waterproof)
- Peak hold
- Min-max hold
- Auto power off
- Memory
- Large LCD with clear backlight

### Specifications

Functions	Maximum range	Resolution	Accuracy
Voltage	1000 VAC	0.1 V	± 1.0 % + 30d
	1000 VDC	0.1 V	± 0.06 % + 4d
Current	10 AAC	0.001 A	± 1.5 % + 30d
	10 ADC	0.001 A	± 1.0 % + 3d
Frequency	40 MHz	0.01 MHz	± 0.1 % + 1d
Resistance	40 MΩ	0.0001 MΩ	± 0.3 % + 4d
Duty cycle	0.1...99.9 %	0.01 %	± 1.2 % + 2d
Temperature	-50 °C...+1200 °C	°C	± 1.0 % + 2.5 °C
	-58 °F...+2192 °F	°F	± 1.0 % + 4.5 °F
4-20 mA %	-25...125 %	0.01 %	± 50d
Insulation	0.1...4000 MΩ	0.001 MΩ	± 2.0 % + 10d

Specifications	
Display resolution	40.000d
Overvoltage category	CAT III 1000 V / CAT IV 600 V
Standard	EN 61010-1, EN 61557-6
Supply	6x 1.5 V AAA batteries
Dimensions	220 x 96.5 x 60.5 mm
Weight	± 631 g



## Multimeter accessories



**Bag BT7**

Article number:  
626006016



**Bag BT11**

Article number:  
626006033



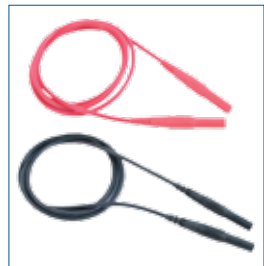
**Protective holster**

Article numbers:  
626006027 (NI 70 series)  
626006009 (NI 90 series)  
626006010 (NI 305R)



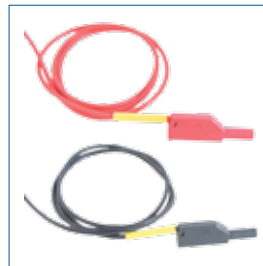
**Test lead**  
(with 2 mm probe)

Article numbers:  
626006000 (red)  
626006001 (black)



**Test lead**  
(1 m, touch proof)

Article numbers:  
560010027 (red)  
560410028 (black)



**Test lead**  
(1,5 m stackable)

Article numbers:  
560410033 (red)  
560410034 (black)



**Alligator clamp**  
(2 mm)

Article numbers:  
626006002 (red)  
626006003 (black)



**Alligator clamp**  
(4 mm)

Article numbers:  
560410048 (red)  
626000314 (black)



**Fuse**  
(NI 305R)

Article numbers:  
626006017 (15 A / 600 V)  
626006018 (1 A / 600 V)



**Fuse**  
(NI 305R)

Article numbers:  
626006019 (1 A / 500 V)  
626006020 (16 A / 500 V)  
626006023 (10 A / 500 V)  
626006040 (400 mA / 1000 V)  
626006041 (11 A / 1000 V)

# Multimeters

## Multimeter accessories



**Probe**  
(2 mm, short)  
  
*Article number:*  
626006004



**Probe**  
(4 mm)  
  
*Article numbers:*  
560410029 (red)  
560410030 (black)



**Probe**  
(4 mm touch proof)  
  
*Article numbers:*  
626006005 (red)  
626006006 (black)



**Thermo couple type K**  
  
*Article number:*  
626006007



**RS232 cable**  
(NI 305R)  
  
*Article number:*  
626006008



**Hanging kit**  
  
*Article number:*  
626005026



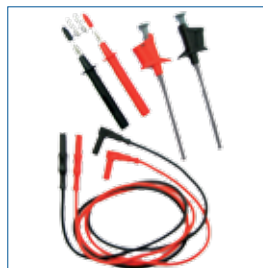
**Multimeter kit**  
(incl. test leads / probes /  
clips / alligator clamps)  
  
*Article numbers:*  
560410071



**Probe kit**  
(2 probes incl. screw tips  
2 - 4 mm)  
  
*Article number:*  
560410072



**Test lead kit**  
(incl. probes)  
  
*Article number:*  
560410069



**Test lead kit**  
(incl. probes /  
clips)  
  
*Article number:*  
560410070

## Multimeter accessories



**Telescope probe**  
49 - 85 cm

Article number:  
560410066



**Telescope probe**  
93 - 172 cm

Article number:  
560410067



**Telescope probe**  
165 cm

Article number:  
560410068



**Thermo couple**  
(NI 99III)

Article number:  
626006042





SERVING  
SAFETY

## Current clamps

Current clamps are evolved into multiple function devices and are being called multimeters more and more.

The clamps can often be used for measuring AC / DC currents, AC / DC voltage, resistance, continuity and some even measure power.

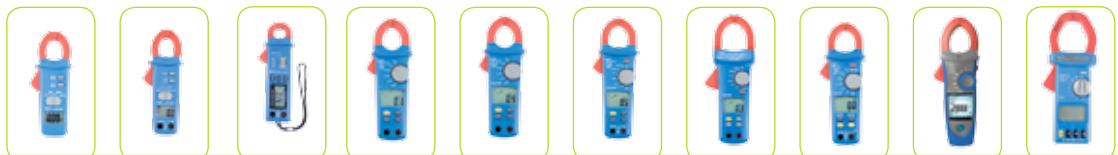
The housing of the clamps has been developed strongly in the past years. In addition to the ergonomic shape, the handy rotation switch and clear display, some clamps are equipped with a drop shaped jaw (opening) for optimal measurement.



# Current clamps

## Current clamps

The program of current clamps offers a wide range of functions and opportunities. Nieaf-Smitt offers you 10 current clamps, each with its unique specifications. Whether you need a basic instrument or a more advanced model, the portfolio has the correct instrument available. Even a CAT IV model is now available in our range.



	NI 02	NI 03	NI 30R	NI 11	NI 11R	NI 12R	NI 16R	NI 18 <sup>PLUS</sup>	NI 18 <sup>PLUS</sup>	NI 349PR
Display resolution	2000d	2000d	3999d	4000d	4000d	4000d	4000d	6000d	10000d	3999d
Current AC	•	•	•	•	•	•	•	•	•	•
Current DC			•				•	•	•	•
Voltage AC		•	•	•	•	•	•	•	•	•
Voltage DC		•	•	•	•	•	•	•	•	•
Resistance		•	•	•	•	•	•	•	•	•
Diode / continuity		•	•	•	•	•	•	•	•	•
Frequency				•	•	•	•	•	•	•
Power								•	•	•
Temperature								•		•
Harmonic distortion								•	•	
True RMS			•			•	•	•	•	•
Hold	•	•	•	•	•	•	•	•	•	•
Min - max hold				•	•	•	•	•	•	•
Zero			•	•	•	•	•	•	•	•
Backlicht				•	•	•	•	•	•	•
Max. conductor size	27 mm	27 mm	22 mm	34 mm	34 mm	35 mm	51 mm	35 mm	37 mm	65 mm
Max. jaw opening	30 mm	30 mm	25 mm	37 mm	40 mm	40 mm	53 mm	40 mm	45 mm	55 mm
Over voltage category	CAT III 600 V	CAT III 600 V	CAT III 600 V	CAT III 600 V	CAT III 600 V	CAT III 600 V	CAT III 600 V	CAT III 600 V	CAT IV 600 V	CAT III 600 V
Weight	250 g	225 g	270 g	360 g	360 g	380 g	420 g	380 g	435 g	650 g
Page	49	50	51	52	53	54	55	56	57	58

# Current clamps

## NI 02

Article number: 626005044



### Compact current clamp

The NI 02 is by far the smallest current clamp in the range of Nieaf-Smitt. This clamp provides you the basic measurement of AC current up to 400 A. The small jaw of 30 mm makes it ideal to fit in small situations.

### Features

- Current AC
- Data hold
- CAT III 600 V
- Display 2000d
- Max hold

### Including



- Battery
- Manual

Bag

### Specifications

Functions	Maximum range	Accuracy
Current	400 AAC	2 %

Specifications	
Max. conductor size	27 mm
Max. jaw opening	30 mm
Display resolution	2000d
Over voltage category	CAT III 600 V
Standard	EN 61010-1
Supply	1x 9V battery
Dimensions	180 x 56 x 32 mm
Weight	± 250 g (incl. battery)

# Current clamps

## NI 03

Article number: 626005043



## Multimeter / current clamp

With the exact same housing as the NI 02, the NI 03 excels in functionality. With basic measurements as voltage, resistance and of course current makes it perfect for allround users.

The basic accuracy of 1% makes it ideal for exact measurements.

### Features

- Current AC
- Voltage AC/DC
- Resistance
- Continuity
- CAT III 600 V
- Display 2000d
- Hold functie

### Including



Bag



Test leads

- Battery
- Manual

### Specifications

Function	Maximum range	Accuracy
Voltage	600 VAC 600 VDC	$\pm 1.5\% + 5d$ $\pm 1.0\% + 2d$
Current	400 AAC	$\pm 1.9\% + 5d$
Resistance	20 M $\Omega$	$\pm 1.9\% + 5d$

Specifications	
Max. conductor size	30 mm
Max. jaw opening	30 mm
Display resolutie	2000d
Over voltage category	CAT III 600 V
Standard	EN 61010-1
Supply	1x 9 V battery
Dimensions	180 x 56 x 32 mm
Weight	$\pm 225$ g (incl. battery)



# Current clamps

## NI 30R

Article number: 626005020



### Compact True RMS current clamp

The NI 30R is a very compact True RMS AC/DC current clamp, equipped with the smallest jaw opening. The clamp has accurate measurement of voltage, current (up to 300 A) and resistance. With a weight of only 205 gram it is easy to handle and use.

#### Features

- True RMS
- Current AC/DC
- Voltage AC/DC
- Resistance
- Continuity test
- Data hold
- Auto ranging
- Auto power off
- Zero button

#### Including



Bag



Test leads

- Battery
- Manual

#### Specifications

Function	Maximum range	Accuracy
Voltage	600 VAC 600 VDC	± 1.5 % + 5d ± 0.5 % + 2d
Current	300 AAC 300 ADC	± 1.0 % + 3d ± 2.0 % + 2d
Resistance	40 MΩ	± 0.9 % + 3d

Specifications	
Max. conductor size	22 mm
Max. jaw opening	25 mm
Display resolutie	4000d
Over voltage category	CAT II 600 V / CAT III 300 V
Standard	EN 61010-1
Supply	1x 9V battery
Dimensions	192 x 66 x 27 mm
Weight	± 205 g (incl. battery)

# Current clamps

## NI 11

Article number: 626005032



## Ergonomic current clamp

This elegant shaped, ergonomic current clamp is suitable for multiple measurements, such as AC currents, voltages, resistance and frequency. The integrated LCD display is included with bargraph and backlight. This allows the user to use the clamp in dark applications and surroundings.

### Features

- Current AC
- Voltage AC/DC
- Resistance
- Continuity test
- Frequency
- Min – max hold
- Auto ranging
- Auto power off
- Backlight

### Including



Bag



Test leads

- Battery
- Manual

### Specifications

Functions	Maximum range	Accuracy
Voltage	600 VAC 600 VDC	± 1.0 % + 5d ± 0.7 % + 2d
Current	600 AAC	± 1.9 % + 5d
Resistance	400 Ω	± 1.0 % + 3d
Frequency	500 Hz	± 0.1 % + 2d

Specifications	
Max. conductor size	35 mm
Max. jaw opening	40 mm
Display resolution	4000d
Over voltage category	CAT II 1000 V / CAT III 600 V
Standard	EN 61010-1
Supply	1x 9V battery
Dimensions	220 x 70 x 50 mm
Weight	± 360 g (incl. battery)

# Current clamps

## NI 11R

Article number: 626005033



### High accuracy True RMS current clamp

The NI 11R is an elegant and ergonomic current clamp, with high accuracy. The clamp is equal in functionality to the NI 11, except for the integrated True RMS measurement.

### Features

- True RMS
- Current AC
- Voltage AC/DC
- Resistance
- Continuity test
- Frequency
- Min – max hold
- Auto ranging
- Auto power off
- Backlight

### Including



Bag



Test leads

- Battery
- Manual

### Specifications

Functions	Maximum range	Accuracy
Voltage	600 VAC	± 1.0 % + 5d
	600 VDC	± 0.7 % + 2d
Current	600 AAC	± 1.9 % + 5d
Resistance	400 Ω	± 1.0 % + 3d
Frequency	500 Hz	± 0.1 % + 2d

Specifications	
Max. conductor size	34 mm
Max. jaw opening	40 mm
Display resolution	4000d
Over voltage category	CAT II 1000 V / CAT III 600 V
Standard	EN 61010-1
Supply	1x 9V battery
Dimensions	220 x 70 x 50 mm
Weight	± 360 g (incl. battery)

# Current clamps

## NI 12R

Article number: 626005034



## Complete current clamp

The complete and versatile current clamp NI 12R is an elegant and ergonomic shaped instrument. This clamp is suitable for measuring AC/DC current, voltages, resistance and frequency.

The rotary switch for selection of the appropriate measurements is easy. The measured values are displayed clearly on the LCD display, including backlight and bargraph.

## Kenmerken

- True RMS
- Current AC/DC
- Voltage AC/DC
- Resistance
- Continuity test
- Frequency
- Min – max hold
- Display hold
- Peak hold
- Backlight

## Including



Bag



Test leads

- Battery
- Manual

## Specifications

Function	Maximum range	Accuracy
Voltage	600 VAC 600 VDC	± 1.0 % + 5d ± 0.7 % + 2d
Current	600 AAC 600 ADC	± 1.9 % + 5d ± 1.5 % + 5d
Resistance	600 Ω	± 1.0 % + 3d
Frequency	500 Hz	± 0.1 % + 2d

Specifications	
Max. conductor size	35 mm
Max. jaw opening	40 mm
Display resolution	4000d
Over voltage category	CAT II 1000 V / CAT III 600 V
Standard	EN 61010-1
Supply	1x 9 V battery
Dimensions	235 x 78 x 51 mm
Weight	± 380 g (incl. battery)

# Current clamps

## NI 16R

Article number: 626005035



### True RMS current clamp

The NI 16R is a True RMS current clamp, especially designed for demanding users. The clamp meter is suitable for measuring AC/DC currents (up to 1000 A), AC/DC voltages, resistance and frequency. This sturdy current clamp is approved to measure in CAT IV environment.

Extra functions of the NI 16R are continuity test and auto power off. The backlight makes it possible to work in poorly lighted situations.

### Features

- Up to 1000 A
- True RMS
- Current AC/DC
- Voltage AC/DC
- Resistance
- Continuity test
- Frequency
- Min-max hold
- Peak hold
- LCD backlight

### Including



Bag



Test leads

- Battery
- Manual

### Specifications

Function	Maximum range	Accuracy
Voltage	750 VAC 1000 VDC	± 1.0 % + 5d ± 0.7 % + 2d
Current	1000 AAC 1000 ADC	± 2.9 % + 5d ± 2.9 % + 5d
Resistance	400 Ω	± 1.0 % + 3d
Frequency	400 Hz	± 0.1 % + 2d

### Specifications

Max. conductor size	51 mm
Max. jaw opening	53 mm
Display resolution	4000d
Over voltage category	CAT IV 600 V
Standard	EN 61010-1
Supply	1x 9 V battery
Dimensions	275 x 105 x 51 mm
Weight	± 420 g (incl. battery)

# Current clamps

## NI 18<sup>PLUS</sup>

Article number: 626005038



### Including



Bag

- Battery
- Manual



Test leads



Thermo couple

### True RMS current clamp

The NI 18<sup>PLUS</sup> is a sturdy, high quality multifunctional True RMS current clamp. The clamp can measure up to 600 AAC/DC and 750 VAC / 1000 VDC.

Other functionalities like temperature, power factor, power (Watt) and phase rotation complete the NI 18<sup>PLUS</sup> as the most allround clamp in the range.

### Features

- True RMS
- AC/DC current
- AC/DC voltage
- Continuity
- Resistance
- Frequency
- Total harmonic distortion
- Inrush current
- Power measurement
- Power factor
- Phase rotation
- Temperature
- Backlight

### Specifications

Function	Maximum range	Accuracy
Voltage	750 VAC 1000 VDC	$\pm 1.0\% + 5d$ $\pm 0.7\% + 5d$
Current	600 AAC/DC	$\pm 1.5\% + 5d$
Resistance	20 k $\Omega$	$\pm 10\% + 5d$
Frequency	10 kHz	$\pm 0.1\% + 2d$
Effective power	600 kW	
Temperature	-50 °C...+1000 °C	$\pm 1.0\% + 3\text{ °C}$

### Specifications

Max. conductor size	35 mm
Max. jaw opening	40 mm
Display resolution	4000d
Over voltage category	CAT II 1000 V / CAT III 600 V
Standard	EN 61010-1
Supply	1x 9 V battery
Dimensions	235 x 78 x 51 mm
Weight	$\pm 380\text{ g}$ (incl. battery)

# Current clamps

## NI 19<sup>PLUS</sup>

Article number: 626005052



### True RMS current clamp

The NI 19<sup>PLUS</sup> is a sturdy, high quality multifunctional True RMS current clamp. The clamp can measure up to 600 AAC/DC and 1000 VAC/VDC.

Other functionalities like power factor, power (Watt) and phase rotation complete the NI 19<sup>PLUS</sup> as the most allround clamp in the range. The fact that the NI 19<sup>PLUS</sup> can measure both AC and DC power, makes the clamp very suitable for measuring solar PV-systems.

In combination with the EazyFlex current clamp adapter the measuring range is increased to 3000 AAC.

### Features

- True RMS
- Current AC/DC
- Voltage AC/DC
- Continuity test
- Resistance
- Frequency
- Total harmonic distortion
- Inrush current
- Power measurement
- Power factor
- Phase rotation
- Capacitance
- Backlight
- LED illuminance when clamping
- VoltSense (non-contact voltage detection)

### Specifications

Function	Maximum range	Accuracy
Voltage	1000 VAC 1000 VDC	± 1.0 % + 5d ± 0.7 % + 2d
Current	600 AAC/DC	± 1.5 % + 5d
Resistance	100 kΩ	± 1.0 % + 5d
Frequency	10 kHz	± 0.5 % + 3d
Effective power	600 kW	A, error x V, reading + V, error x A, reading

Specifications	
Max. conductor size	37 mm
Max. jaw opening	45 mm
Display resolution	10000d
Over voltage category	CAT III 600 V / CAT III 1000 V
Standard	EN 61010-1
Supply	1x 9V battery
Dimensions	242 x 75 x 50.5 mm
Weight	± 435 g (incl. battery)

### Including



Bag



Test leads

- Battery
- Manual

# Current clamps

## NI 349 PR

Article number: 626005025



### Including



Bag



Test leads



Thermo couple

- Battery
- Manual

### True RMS current clamp

The NI 349PR is a very sturdy, high quality and multi-functional True RMS current clamp with a huge measuring range. This clamp can measure AC current up to 2100 A and DC current up to 2500 A.

Whether you are a demanding user or just want to make a simple measurement, with the easy to use rotary switch you are able to make this measurement.

### Features

- True RMS
- Current AC/DC
- Voltage AC/DC
- Continuity test
- Resistance
- Relative measurement
- Power
- Temperature
- Min-max hold
- Com output
- Backlight

### Specifications

Functions	Maximum range	Accuracy
Voltage	600 VAC 600 VDC	$\pm 1.5\% + 5d$ $\pm 1.5\% + 3d$
Current	2100 AAC 2500 ADC	$\pm 1.5\% + 3d$ $\pm 1.5\% + 3d$
Resistance	400 $\Omega$	$\pm 1.0\% + 2d$
Power	1200 kW	$\pm 2.5\% + 5d$
Temperature	-50 °C...+1000 °C	$\pm 1.0\% + 3\text{ }^{\circ}\text{C}$

Specifications	
Max. conductor size	55 mm
Max. jaw opening	55 mm
Display resolution	3999d
Over voltage category	CAT III 600 V
Standard	EN 61010-1
Supply	1x 9 V battery
Dimensions	271 x 112 x 36 mm
Weight	$\pm 650\text{ g}$ (incl. battery)





# Current clamps



### Bag

Article numbers:  
626006011 BT2  
626006012 BT3  
626006014 BT5  
626006015 BT6



### Test lead

(with 2 mm probe)

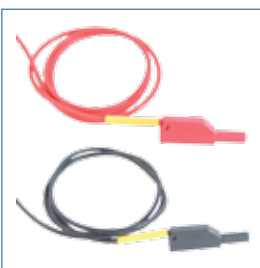
Article numbers:  
626006000 (red)  
626006001 (black)



### Test lead

(1 m touch proof)

Article numbers:  
560410027 (red)  
560410028 (black)



### Test lead

(1.5 m stackable)

Article numbers:  
560410033 (red)  
560410034 (black)



### Alligator clamp

(2 mm)

Article numbers:  
626006002 (red)  
626006003 (black)



### Alligator clamp

(4 mm)

Article numbers:  
560410048 (red)  
626000314 (black)



### Probe

(4 mm, touch proof)

Article numbers:  
626006005 (red)  
626006006 (black)



### Probe

(4 mm)

Article numbers:  
560410029 (red)  
560410030 (black)



### Test lead kit

(incl. probes)

Article number:  
560410069



### Probe kit

(2 probes incl. screw tips 2 - 4 mm)

Article number:  
560410072



### Test lead kit

(incl. probes /clips)

Article number:  
560410070





SERVING  
SAFETY

## Earth leakage clamp

Detection of an installation which is decreasing in quality is not always easy. Especially factors such as earth leakage or frequent tripping of the RCD are difficult to trace.

In most of these cases the access to the installation is influencing the time of the inspection negatively and in many cases it will make an inspection or repair very expensive. For such problems an earth leakage clamp is most convenient.



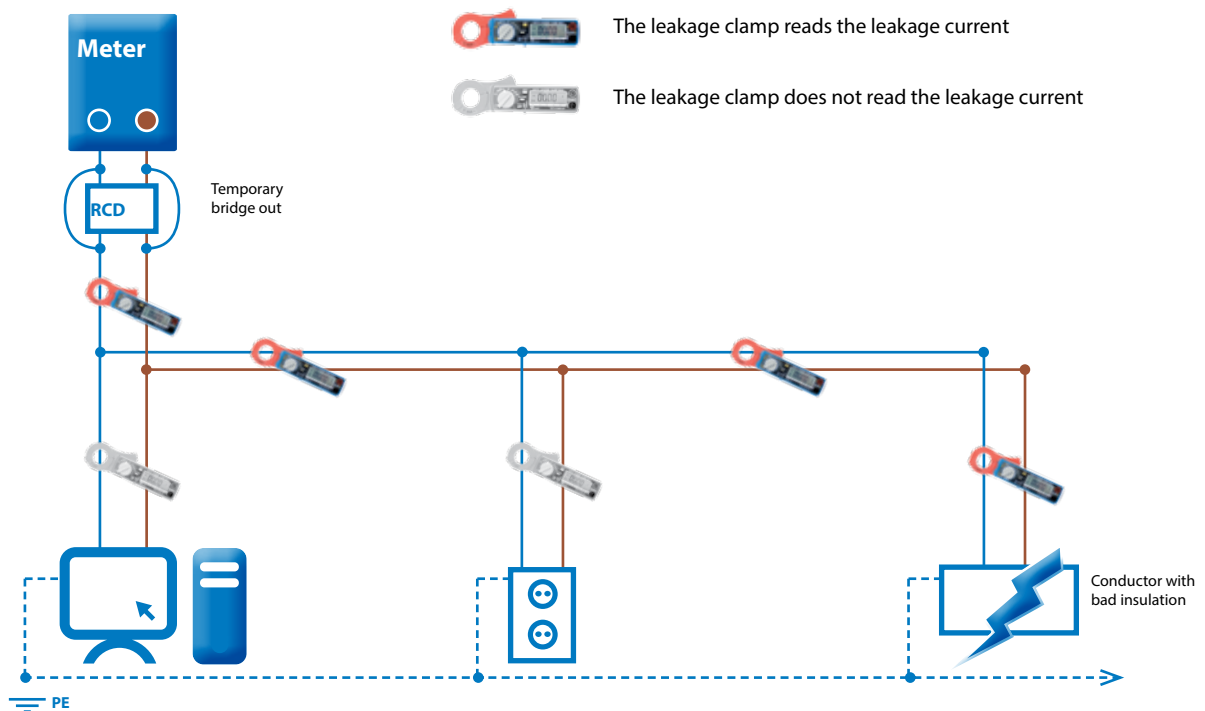
# Earth leakage clamp

The best way to explain a possible 'problem situation' is by a simple example.

Suppose an installation is completely or partially out of order. The installer is called to solve the problem, and finds out that the RCD is causing the trouble. When a difference between phase and neutral occurs, the RCD trips, due to an obvious leakage to earth. Frequently tripping means a continuous leakage.

The most logical reason for this problem is a decreased insulation resistance to phase and earth. In order to detect this problem, the installer decides to perform an insulation resistance test. To do so, the RCD needs to be diverted and all cables of the installation will need to be disconnected from the installation. In addition to this the installation is equipped with high sensitive appliances and equipment. Performing an insulation resistance test will seriously damage these devices.

The customer however, wishes to continue operation or at least keep the time for the inspection as short as possible. In this example, an earth leakage clamp can be used for measuring a leakage current or differential current. The clamp can also be used for locating such currents without having to disconnect or switch off the installation. This saves a lot of time and money!





SERVING SAFETY

# Earth leakage clamp

## NI 333

Article number: 626005024



### Earth leakage clamp

At first, the NI 333 looks like a normal current clamp. Nevertheless, the special integrated technique of the jaw enables the user to measure very low or differential currents. The NI 333 is designed with an ergonomic housing with a wide jaw (opening). With this jaw, conductors up to 30 mm can be measured easily.

The jaw of the clamp is very sensitive, yet very well isolated. This enables the user to measure not only within the standard frequency of 50/60 Hz, but also at higher frequencies. In order to filter the disturbance of high frequencies, a special filter has been developed. This widens the range from 40 Hz up to 1 kHz. All measured values are displayed on the LCD screen.

### Features

- AC current
- AC voltage
- Resistance
- Relative measurement
- High accuracy
- Auto power off
- Data hold

### Including



Bag



Test leads

- Battery
- Manual

### Specifications

Functions	Range	Accuracy
Voltage	0.1 V... 400 VAC	± 2.0 % + 4d
Current	10 µA...60 AAC	± 2.0 % + 5d
Resistance	0.1 Ω...400 Ω	

Specifications	
Max. conductor size	30 mm
Max. jaw opening	30 mm
Display resolution	3999d
Over voltage category	CAT II 600 V / CAT III 300 V
Standards	EN 61010-1
Supply	1x 9 V battery
Dimensions	210 x 70 x 40 mm
Weight	± 230 g (incl. battery)

# Accessories

## Earth leakage clamp



### Bag BT4

Article numbers:  
626006013



### Test lead

(with 2 mm probe)

Article numbers:  
626006000 (red)  
626006001 (black)



### Test lead

(1m, touch proof)

Article numbers:  
560410027 (red)  
560410028 (black)



### Alligator clamp

(2 mm)

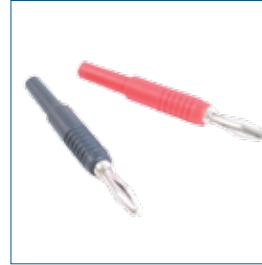
Article numbers:  
626006002 (red)  
626006003 (black)



### Alligator clamp

(4 mm)

Article numbers:  
560 410 048 (red)  
626000314 (black)



### Connectors

(4 mm, touch proof)

Article numbers:  
626006005 (red)  
626006006 (black)



### Probes

(4 mm)

Article numbers:  
560410029 (red)  
560410030 (black)



SERVING  
SAFETY

## Current clamp adapters

As a perfect accessory for the multimeters and other instruments, Nieaf-Smitt offers current clamp adapters. These adapters are a perfect extension and enhance the numerous possibilities our standard equipment already has.



# Current clamp adapters

Current clamp adapters are developed to be a simple accessory and extension to a digital multimeter or other instruments.

These adapters are standard equipped with two connectors for connection to a multimeter and a curled cable for measuring at a distance of the instrument. By using the same technique as standard current clamps, the current clamp adapters have a completely insulated jaw. This makes it possible to accurately measure higher currents up to 1000 A.

In case of using an analyser or data logger, the instruments are designed to store, analyse and display different values. For measuring currents with these Power Analysers several clamp adapters are available. The portfolio of clamp adapters is build up by several different models, each with its own size, range or type of jaw.

The mini adapters have a range of 20 A or 200 A, Because of their small size, the adapters can be carried and used easily. The jaw of 15 x 17 mm. can be used for most conductors / cables in a low voltage installation. In case higher currents have to be measured, clamps with a range of 400 A and 1000A are available. These adapters can be used for larger conductors of heavy installations or appliances. The jaw is 52 mm and therefore easy to use in every application.

Due to lack of room, some applications do not allow the use of a standard jaw of a current clamp adapter. For these situations a flexible clamp is available. The flex clamp has one flexible head, which can be mounted around a conductor easily.





## NI 31

Article number: 626005007



### Compact current clamp adapter

The compact current clamp adapter NI 31 is an easy to use solution for measuring high currents (AC) in combination with a multimeter.

Complete with curled cable, the adapter can be connected to the multimeter.

### Features

- Up to 400 AAC
- High accuracy
- 4 mm connectors

### Including



Bag



Connectors, 4 mm, touch proof

- Manual



### Specifications

Function	Range	Accuracy
Current	0.1...400 AAC	$\pm 1.9\% + 0.5\text{ A}$
Frequency	50...60 Hz	
Output voltage	1 mV AC per 1 AAC	

Specifications	
Max. conductor size	29 mm
Max. jaw opening	30 mm
Over voltage category	CAT II 600 V
Standard	EN 61010-1
Dimensions	148 x 72 x 36 mm
Weight	$\pm 250\text{ g}$

# Current clamp adapters

## NI T38

Article number: 626005049



### Compact AC/DC current clamp adapter

The compact current clamp adapter NI T38 is an easy to use solution for measuring high currents (AC+DC) in combination with a multimeter.

The clamp adapter is compatible with the EazyPV solar PV-tester.

### Features

- AC & DC
- 2 ranges 40 A and 400 A
- 4 mm connectors
- Non-contact voltage detection
- Compatible met EazyPV solar PV-tester



### Including

- Manual
- Batteries

### Specifications

Function	Range	Accuracy
Current	0.1...400 AAC	
Output voltage	1 mV per 1 A	$\pm 2.8 \% + 0.5 \text{ A}$
Current	0.01...40 A	
Output voltage	10 mV per 1 A	$\pm 2.5 \% + 0.1 \text{ A}$
Frequency	10 kHz	

Specifications	
Max. conductor size	30 mm
Max. jaw opening	30 mm
Over voltage category	CAT III 600V, CAT IV 300 V
Standard	EN 61010-1, EN61010-2-32
Dimensions	150 x 58 x 35 mm
Weight	$\pm 205 \text{ g}$

## EazyFlex

Article number: 626005053



### Flexibele current clamp adapter

The EazyFlex is a flexible current clamp adapter with a measuring range up to 3000 A AC. Especially difficult to reach locations can be safely measured by the flexible current sensor

#### Features

- Up to 3000 AAC
- High accuracy

#### Including

- Manual
- Batteries

#### Specifications

Function	Range	Accuracy
Current	0.01...3000 AAC	± 3.0 %
Output voltage	30 A 300 A 3000 A	100 mA AC voltage per 1 AAC 10 mA AC voltage per 1 AAC 1 mA AC voltage per 1 AAC
Frequency	45...500 kHz	

Specifications	
Flex current sensor length	45 mm
Over voltage category	CAT IV 600 V
Standard	EN 61010-1
Dimensions	148 x 72 x 36 mm
Weight	± 200 g

# Current clamp adapters

## 20 A/1 V & 200 A/1 V

Article number: 20 A/1 V 626000521

Article number: 200 A/1 V 626000520



## Miniature current clamp adapters

Miniature current clamp adapter for Nieaf-Smitt power analysers. With their small size, the clamp can easily be stored in the carry bag together with the analyser.

Most of the cables in a low voltage installation can be measured highly accurate by the jaw (opening) of 15 x 17 mm. The 20 A/1 V and 200 A/1 V are equal clamps with the exception of their measuring range.

## Specifications

Function	Range
<b>Model 20 A/1 V</b>	
Ratio	20 A: 1 V
Nominal input current	20 A
Max. cont. input current	25 A
<b>Model 200 A/1 V</b>	
Ratio	200 A: 1 V
Nominal input current	200 A
Max. cont. input current	250 A
Accuracy	1 %

Specifications	
Output signal	1 VAC at nominal input current
Frequency	40...5000 Hz
Dielectric strength	3000 V 50 Hz at 1 min
Temperature	-10 °C...+50 °C
Output	1.5 m cable with D01 connector
Max. voltage not insulated conductor	30 V RMS
Max. voltage insulated conductor	600 V RMS
Max. jaw opening	15 x 17 mm
Over voltage category	CAT III 600 V
Standard	EN 61010-1
Dimensions	90 x 40 x 23 mm
Weight	± 115 g

# Current clamp adapters



## 400 A/1 V en 1000 A/1 V

Article number: 400 A/1 V 626000519  
Article number: 1000 A/1 V 626000542



## Current clamp adapter

Current clamp adapters for Nieaf-Smitt power analysers. With these adapters higher currents up to 400 A or 1000 A and larger conductors can be measured. The jaw opening of the adapter is 52 mm.

## Specifications

Function	Range
<b>Model 400 A/1 V</b>	
Ratio	400 A: 1 V
Nominal input current	400 A
Max. cont. input current	500 A
Accuracy	1 %
<b>Model 1000 A/1 V</b>	
Ratio	1000 A: 1 V
Nominal input current	1000 A
Max. cont. input current	1200 A
Accuracy	1 %

Specifications	
Output signal	1 VAC at nominal input current
Frequency	40...5000 Hz
Dielectric strength	3000 V 50 Hz at 1 min
Temperature	-10 °C...+50 °C
Output	1.5 m cable with D01 connector
Max. voltage not insulated conductor	600 V
Max. jaw opening	52 mm
Over voltage category	CAT III 600 V
Standard	EN 61010-1
Dimensions	215 x 101 x 40 mm
Weight	± 610 g

# Current clamp adapters

## Flextang

Article number: 626000686



### Flextang 3000 A / 1 V 1-phase

Flexible current clamp adapter suitable for Nieaf-Smitt power analysers. The flexible head is used for easy measuring in those installations which are difficult to reach or where limited space is available.

By using the Rogowski-principle, very accurately a wide range can be measured. The measuring range goes up to 3000 A. In order to keep the accuracy level, the clamp has a switch for manual ranging and on-off mode.



### Specifications

Function	Range
Ratio	3000 A: 1 V
Nominal input current	3000 A
Max. cont. input current	4200 A
Accuracy	1 %

Specifications	
Output signal	1 VAC at nominale input current
Frequency	10...20 kHz
Dielectric strength	5500 V 50 Hz at 1 min
Temperature	-10 °C...+70 °C
Output	1.5 m cable with D01 connector
Max. voltage not insulated conductors	600 V
Max. jaw opening	100 mm
Over voltage category	CAT III 600 V
Standard	EN 61010-1
Dimensions	n/a
Weight	± 870 g



# Current clamp adapters

## Earth clamp

Article number: ERT-a7 626000309  
Article number: Minitang 626000637



ERT-a7



Minitang

## Earth clamps

It is very important to determine the quality of each separate earth electrode, when more than one earth system is parallel connected. In general it is difficult to release the mechanical connection of these electrodes because of rusty parts like screws, bolts etc.

That is why the ERT-S and the Eurotest instruments are equipped with the Utility mode. This function offers the possibility to use a current clamp for measurements of such earth electrodes without disconnecting those. The ERT-a7 has a range up to 1000 A and the miniclamp up to 200 A

## Specifications

Specifications	
<b>Ert-a7</b>	
Ratio	1000 A: 1 A
Max. jaw opening	52 mm
Dimensions	215 x 40 x 10 mm
Weight	± 610 g
<b>Miniclamp</b>	
Ratio	100 A: 100 mA
Max. jaw opening	15 x 17 mm
Dimensions	90 x 40 x 23 mm
Weight	± 115 g
Output signal	1 A at nominal input current
Frequency	40...5000 Hz
Output	1.5 m cable with D01 connector



Nieaf-Smitt Installation Technology

# Test- & measuring equipment







## SALES OFFICES

### AUSTRALIA

RMS Mors Smitt  
6 Anzed Court, Mulgrave,  
VIC 3170, Australia  
T +61 3 8544 1200  
F +61 3 8544 1201  
E sales.rms@wabtec.com

### FRANCE

Mors Smitt SAS  
Tour Rosny 2, Avenue du Général de Gaulle,  
F - 93118 Rosny-sous-Bois Cedex, France  
T +33 (0) 1 4812 1440  
F +33 (0) 1 4855 9001  
E sales.msf@wabtec.com

### HONG KONG

Mors Smitt Asia Ltd.  
29/F, Fun Tower, 35 Hung To Road  
Kwun Tong, Kowloon, Hong Kong SAR  
T +852 2343 5555  
F +852 2343 6555  
E sales.msa@wabtec.com

### THE NETHERLANDS

Mors Smitt B.V.  
Vrieslantlaan 6  
3526 AA Utrecht, The Netherlands  
T +31 (0)30 288 1311  
F +31 (0)30 289 8816  
E sales.msbv@wabtec.com

### UNITED KINGDOM

Mors Smitt UK Ltd.  
Graycar Business Park, Barton under Needwood,  
Burton on Trent, Staffordshire, DE13 8 EN, UK  
T +44 (0)1283 722 650  
F +44 (0)1283 722 651  
E sales.msuk@wabtec.com

### USA

Mors Smitt Technologies Inc.  
1010 Johnson Drive  
Buffalo Grove, IL 60089-6918, USA  
T +1 847 777 6497  
F +1 847 520 2222  
E salesmst@wabtec.com

Your local contact:

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EN - April 2016

[www.nieaf-smitt.com](http://www.nieaf-smitt.com)

