Measuring Tools

Precise surveying and measuring
Customer satisfaction is the yardstick of our activities – our name governs our quality.
Nedo mEssfix

The Nedo mEssfix is a thoroughly tried-and-tested telescopic measuring stick, designed to measure the widths of openings.

Nedo mEssfix – the original

Simply place the mEssfix in position, pull out the extensions and read off the measurement from the analogue display. A two-way spirit level attached to the outer tube facilitates taking vertical and horizontal measurements. The built-in metal measuring tape and the heavy-duty rewind mechanism are made to withstand severe stresses and to guarantee accurate measurements at all times. Thanks to its ease of use, reliability and sturdiness, the Nedo mEssfix has become indispensable in most skilled trades, such as in window frame making or interior outfitting.

Nedo mEssfix

<table>
<thead>
<tr>
<th>Ref.-No.</th>
<th>Measuring range</th>
<th>Length retracted</th>
<th>Graduations</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>F 180 111</td>
<td>0.37 m to 1.00 m</td>
<td>0.37 m</td>
<td>mm</td>
<td>0.7 kg</td>
</tr>
<tr>
<td>F 280 111</td>
<td>0.53 m to 2.00 m</td>
<td>0.53 m</td>
<td>mm</td>
<td>0.9 kg</td>
</tr>
<tr>
<td>F 380 112</td>
<td>0.70 m to 3.00 m</td>
<td>0.70 m</td>
<td>mm</td>
<td>1.1 kg</td>
</tr>
<tr>
<td>F 380 113</td>
<td>0.70 m to 3.00 m</td>
<td>0.70 m</td>
<td>mm/inch</td>
<td>1.1 kg</td>
</tr>
<tr>
<td>F 480 111</td>
<td>0.86 m to 4.00 m</td>
<td>0.86 m</td>
<td>mm</td>
<td>1.4 kg</td>
</tr>
<tr>
<td>F 480 113</td>
<td>0.86 m to 4.00 m</td>
<td>0.86 m</td>
<td>mm/inch</td>
<td>1.4 kg</td>
</tr>
<tr>
<td>F 580 111*</td>
<td>1.07 m to 5.00 m</td>
<td>1.07 m</td>
<td>mm</td>
<td>1.7 kg</td>
</tr>
<tr>
<td>F 580 115*</td>
<td>1.07 m to 5.00 m</td>
<td>1.07 m</td>
<td>mm/inch</td>
<td>1.7 kg</td>
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</tbody>
</table>

Nedo mEssfix with points for roller shutter constructors

<table>
<thead>
<tr>
<th>Ref.-No.</th>
<th>Measuring range</th>
<th>Length retracted</th>
<th>Graduations</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
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<td>0.63 m to 2.10 m</td>
<td>0.63 m</td>
<td>mm</td>
<td>1.0 kg</td>
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<tr>
<td>F 381 111</td>
<td>0.80 m to 3.10 m</td>
<td>0.80 m</td>
<td>mm</td>
<td>1.2 kg</td>
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<tr>
<td>F 481 111</td>
<td>0.96 m to 4.10 m</td>
<td>0.96 m</td>
<td>mm</td>
<td>1.4 kg</td>
</tr>
<tr>
<td>F 581 111*</td>
<td>1.17 m to 5.10 m</td>
<td>1.17 m</td>
<td>mm</td>
<td>1.8 kg</td>
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Cases for Nedo mEssfix

<table>
<thead>
<tr>
<th>Ref.-No.</th>
<th>Type</th>
<th>For model Ref.-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>190 111</td>
<td>Case</td>
<td>F 180 111</td>
</tr>
<tr>
<td>290 111</td>
<td>Case</td>
<td>F 280 111</td>
</tr>
<tr>
<td>390 121-613</td>
<td>Case</td>
<td>F 380 112/F 380 113</td>
</tr>
<tr>
<td>490 121-613</td>
<td>Case</td>
<td>F 480 111/F 480 113</td>
</tr>
<tr>
<td>291 111</td>
<td>Case</td>
<td>F 281 111</td>
</tr>
<tr>
<td>391 111</td>
<td>Case</td>
<td>F 381 111</td>
</tr>
<tr>
<td>491 111</td>
<td>Case</td>
<td>F 481 111</td>
</tr>
</tbody>
</table>

* Supplied with case as a standard
**Nedo mEssfix compact**

Measure interior dimensions quickly and reliably with the lightweight and handy telescopic measuring stick Nedo mEssfix compact. Simply place the mEssfix compact in position, pull out the extensions and conveniently read off the measurement from the analogue display. Ideal in interior outfitting. Nedo mEssfix compact is very handy thanks to its compact dimensions, its light weight and its round telescopic tubes.

The display is attached at the foot of the mEssfix compact, so when measuring windows, the measured values can conveniently be read off at eye level. A two-way bubble is integrated into the display housing to facilitate taking horizontal and vertical measurements.

**Features:**
- Compact dimensions
- Robust display housing with horizontal/vertical bubbles
- Circular telescopic tubes for convenient handling
- Supplied with case as a standard

<table>
<thead>
<tr>
<th>Ref.-No.</th>
<th>Measuring range</th>
<th>Length retracted</th>
<th>Graduations</th>
<th>Weight</th>
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</thead>
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<tr>
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<td>0.9 kg</td>
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<tr>
<td>F 580 211</td>
<td>0.91 m to 5.01 m</td>
<td>0.91 m</td>
<td>mm</td>
<td>1.4 kg</td>
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</tbody>
</table>
**Nedo mEssfix-S**

With a measuring range of up to 8 m the **mEssfix-S** is the ideal helper on the construction site, e.g. for work on scaffolding, for measurements of facades or for the determination of clearances. The display is attached on the upper end of the rod which allows for a convenient read-off.

**Features:**
- Measuring ranges: 5 m, 6 m and 8 m
- Display unit contains two integral spirit levels, conveniently placed at eye level
- Circular spirit level for vertical alignment
- Longitudinal spirit level for horizontal alignment
- Tape winding spring made of best quality spring steel
- Telescopic sections made of sturdy, rectangular-profile aluminium
- Set screws allow extending sections to be locked in any position

**Nedo mEssfix-S**

<table>
<thead>
<tr>
<th>Ref.-No.</th>
<th>Measuring range</th>
<th>Length retracted</th>
<th>Graduations</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
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<td>1.03 m</td>
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<tr>
<td>F 680 151</td>
<td>1.20 m to 6.00 m</td>
<td>1.20 m</td>
<td>mm</td>
<td>2.4 kg</td>
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<tr>
<td>F 880 151</td>
<td>1.53 m to 8.00 m</td>
<td>1.53 m</td>
<td>mm</td>
<td>2.6 kg</td>
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**Cases for Nedo mEssfix-S**

<table>
<thead>
<tr>
<th>Ref.-No.</th>
<th>Type</th>
<th>For model Ref.-No.</th>
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<td>Case</td>
<td>F 580 151</td>
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<tr>
<td>690 151</td>
<td>Case</td>
<td>F 680 151</td>
</tr>
<tr>
<td>890 151</td>
<td>Case</td>
<td>F 880 151</td>
</tr>
</tbody>
</table>
**Nedo Telemeter**

The Nedo Telemeter is a practical all-purpose measuring rod for interior and exterior use. It can be used in building work, interior outfitting and the construction of exhibition stands and work on scaffolding. The 1 m extending sections run between abrasion-resistant plastic guides which also serve as wiper blades. By means of practical push-buttons, the Nedo Telemeter can be reliably locked, thus preventing the telescopic elements from being retracted unintentionally.

**Features:**
- Length extended: 5.00 m
- Length retracted: 1.12 m
- Graduations: mm
- Weight: 1.15 kg
- Case

Ref.-No. F 575 313

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**Nedo LKW-mEssfix**

The telescopic rule for quick and convenient measurement of truck or construction machinery heights. The measured values can be easily read off from the analogue display. With removable cross-arm for easy handling and convenient transport. Includes case.

**Features:**
- Measuring range: 1.45 m to 5.16 m
- Graduations: mm/cm graduation
- Arm for truck measurement (1.25 m long)
- Weight: 3 kg
- Case

Ref.-No. 687 811

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The measurements can be rapidly read off from the analogue display.
The Nedo mEsstronic Easy is an easy-to-use electronic measuring tool for the skilled tradesman. Simply place the mEsstronic Easy in position, pull out the extending sections and read off the measurement from the digital display.

The zero function allows to set reference points for relative measurements. Deviations from the reference points are calculated automatically.

The hold button permits the measured value to be retained in the display. In this way, a measurement can be taken in an inaccessible place and then be read off at a more convenient time. The two models with maximum ranges of 3 m and 5 m cover all typical measuring tasks entailed in building operations.

Features:

- Resolution: 1 mm
- Measuring ranges: 3 m and 5 m
- Reliable Nedo digital technology
- Mechanical components based on proven mEssfix technology
- Power supply: 4 x 1.5 V batteries type (AA) or 4 x 1.2 V rechargeable batteries
- Operation duration: approx. 200 hours (continuous use)
- Automatic switch-off after 3 minutes of non-use
- Zero function: sets reference points for relative measurements
- Hold function: permits use in almost inaccessible places and read-off when convenient

Nedo mEsstronic Easy

<table>
<thead>
<tr>
<th>Ref.-No.</th>
<th>Measuring range</th>
<th>Length retracted</th>
<th>Graduations</th>
<th>Resolution</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td>583 121</td>
<td>0.70 m to 3.00 m</td>
<td>0.70 m</td>
<td>mm</td>
<td>1 mm</td>
<td>1.3 kg</td>
</tr>
<tr>
<td>585 121</td>
<td>1.04 m to 5.00 m</td>
<td>1.04 m</td>
<td>mm</td>
<td>1 mm</td>
<td>2.0 kg</td>
</tr>
</tbody>
</table>

Cases for Nedo mEsstronic Easy

<table>
<thead>
<tr>
<th>Ref.-No.</th>
<th>Type</th>
<th>For model Ref.-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>593 111</td>
<td>Case</td>
<td>583 121</td>
</tr>
<tr>
<td>595 111</td>
<td>Case</td>
<td>585 121</td>
</tr>
</tbody>
</table>
Nedo mEsstronic

Nedo mEsstronic is an electronic measuring tool for the skilled tradesman.

In addition to the functions offered by the mEsstronic Easy, the mEsstronic is equipped with a port for a memory module, a Bluetooth module or a RS-232 module. Measured values can be stored or transferred to a Pocket PC, to a laptop or to other units with the aid of these modules.

Features:
- Resolution: 1 mm
- Measuring ranges: 3 m, 5 m and 8 m
- Power supply: 4 x 1.5 V batteries type (AA) or 4 x 1.2 V rechargeable batteries
- Operation duration: approx. 200 hours (continuous use)
- Automatic switch-off after 3 minutes of non-use
- Internal memory for 10 values
- Zero function: sets reference points for relative measurements
- Port for memory module, Bluetooth module and RS-232 module

<table>
<thead>
<tr>
<th>Ref.-No.</th>
<th>Measuring range</th>
<th>Length retracted</th>
<th>Graduation</th>
<th>Resolution</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>583 111</td>
<td>0.70 m to 3.00 m</td>
<td>0.70 m</td>
<td>mm/inch</td>
<td>1 mm</td>
<td>1.4 kg</td>
</tr>
<tr>
<td>585 111</td>
<td>1.04 m to 5.00 m</td>
<td>1.04 m</td>
<td>mm/inch</td>
<td>1 mm</td>
<td>2.1 kg</td>
</tr>
<tr>
<td>588 111</td>
<td>1.54 m to 8.00 m</td>
<td>1.54 m</td>
<td>mm/inch</td>
<td>1 mm</td>
<td>2.8 kg</td>
</tr>
</tbody>
</table>

Cases for Nedo mEsstronic

<table>
<thead>
<tr>
<th>Ref.-No.</th>
<th>Type</th>
<th>For model Ref.-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>593 111</td>
<td>Case</td>
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</tr>
<tr>
<td>595 111</td>
<td>Case</td>
<td>585 111</td>
</tr>
<tr>
<td>598 111</td>
<td>Case</td>
<td>588 111</td>
</tr>
</tbody>
</table>
Memory module for mEsstronic and mEsstronic 0.1

The memory module stores 511 values measured with the mEsstronic or 250 values measured with the mEsstronic 0.1.

Ref.-No. 585 115

Features:
- Range: 10 m (class 2)
- Clearly visible blue LED display for operation mode
- Suitable for mEsstronic and mEsstronic 0.1
- Power supply via mEsstronic
- Port: Bluetooth 1.10, Serial Port Profile, Slave

RS-232 module for mEsstronic and mEsstronic 0.1

The RS-232 module allows for a transfer of measured values via a RS-232 port to a PC or to the control unit of a glazing bead saw.

Ref.-No. 585 226

Interface for mEsstronic and mEsstronic 0.1

Interface for data transfer from memory module to PC via RS-232-port.

Ref.-No. 585 225

As an alternative to analysing the measured values via the display the memory module can be connected to an interface to transfer the measured values to a PC.
**Nedo mEsstronic 0.1 (with 0.1 mm resolution)**

Nedo mEsstronic 0.1 is an electronic length measuring tool for high precision measurements. Thanks to its high accuracy and the resolution of 0.1 mm this measuring tool is primarily used to measure of glazing bars.

The measured values are shown on the large, easy-to-read digital display. Two measuring ranges are at the user’s disposal: 0.15 m to 2.35 m and 0.803 m to 3.00 m. It is possible to switch from one range to another at any time with the touch of a button.

Reference points for relative measurements can be set by using the zero function. mEsstronic 0.1 features a data interface to save measured values on a memory module or to transfer them to a PC or to the control unit of a glazing bead saw.

### Features:
- Two measuring ranges: 0.15–2.35 m and 0.803–3.00 m (change of range via pushbutton)
- Resolution: 0.1 mm
- Accuracy: ± 0.3 mm
- Power supply: 4 x 1.5 V batteries type (AA) or 4 x 1.2 V rechargeable batteries
- Operation duration: approx. 150 hours
- Automatic switch-off after 3 minutes of non-use
- Zero function: sets reference points for relative measurements
- Recess for memory module, Bluetooth module or RS-232 module

### Table: mEsstronic 0.1

<table>
<thead>
<tr>
<th>Ref.-No.</th>
<th>Measuring range</th>
<th>Length retracted</th>
<th>Resolution</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>583 115</td>
<td>0.15 m to 2.35 m</td>
<td>0.803 m</td>
<td>0.1 mm</td>
<td>1.9 kg</td>
</tr>
<tr>
<td></td>
<td>0.803 m to 3.00 m</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Accessories for mEsstronic 0.1

#### Memory module

Memory module capable of storing 250 measured values. With the aid of the up and down buttons the measured values can be recalled including their memory location on the display of the mEsstronic 0.1.

Ref.-No. 585 115

#### Bluetooth module BlueConnect

The Bluetooth module BlueConnect allows for a wireless data transfer of measured values to a PC or to the control unit of a glazing bead saw.

Ref.-No. 585 228

#### Interface

The memory module can be connected to an interface to transfer the measured values to a PC or to the control unit of a glazing bead saw.

Ref.-No. 585 225

#### RS-232 module

The RS-232 module allows for a transfer of measured values via a RS-232 port to a PC or to the control unit of a glazing bead saw.

Ref.-No. 585 226
The laser mEssfix® is a small, handy and extremely robust laser distance meter for real professionals. It has a measuring range of 0.05 m to 80 m and an accuracy of ± 1.5 mm. Measurements can be taken from the device’s front edge, back edge or multi-functional end piece with automatic position detection. Numerous measuring functions help to save time during surveying operations. The last ten measurements can be stored and recalled.

Features:
- Measurements can be made from the device’s front edge, back edge or end piece
- Multi-functional end piece with automatic position detection
- Clear, back-lit 3-line display
- Area and volume calculation
- 2 Pythagoras functions
- Single or continuous measuring
- Calculator function (+/-)
- Memory for the last ten measurements
- Small, handy and robust
- IP 54 splashwater protection
- Information on range and accuracy comply with ISO 16331-1

The multi-functional end piece allows rapid and simple measuring of diagonals or taking measurements out of corners. The laser mEssfix® automatically detects the position of the multifunctional end piece and takes this into consideration when displaying the measured length, thus avoiding costly measuring errors.

The multi-functional end piece can of course be used as a slide stop when measuring from outer edges.

Technical data:
- Typ. measuring accuracy: ± 1.5 mm
- Measuring range: 0.05 m - 80 m
- Laser: laser class 2, 635 nm
- Automatic switch-off: after approx. 3 minutes
- Power supply: 2 x 1.5 V type AAA batteries
- Measurements per battery set: approx. 3000
- Dimensions: approx. 117 mm x 57 mm x 32 mm
- Weight: 105 g
- Ref.-No.: 705 565
**Leica DISTO™ D5**

**Features:**
- Accuracy: ± 1.0 mm
- Measuring range: 0.05 m - 200 m
- Digital viewfinder with 4 x zoom and high resolution colour display
- Inclination sensor 45°
- Minimum/maximum measuring
- Area and volume calculation
- Pythagoras function
- Addition / subtraction
- Horizontal distance past obstructions
- Trapezium measurements

The integrate digital viewfinder with 4 x zoom enables easy and precise measurement even for large distances outdoors.

**Leica DISTO™ D210**

**Features:**
- Accuracy: ± 1.0 mm
- Measuring range: 0.05 m - 80 m
- Minimum/maximum measuring
- Painter function
- Area and volume calculation
- Pythagoras function
- Addition / subtraction
- Multi-functional end piece with automatic position detection

Thanks to its ergonomic and compact design with soft grip, the Leica DISTO™ D210 fits securely in your hand, is lightweight and fits into any pocket.

**Leica DISTO™ X310**

**Features:**
- Accuracy: ± 1.0 mm
- Measuring range: 0.05 m - 80 m
- Protected against water spray and dust
- Minimum/maximum measuring
- Painter function
- Area and volume calculation
- Pythagoras function
- Addition / subtraction
- Multi-functional end piece with automatic position detection
- Time delay release

Protection class IP65! The housing and keypad are specially sealed against water jets and dust. Cleaning under running water is no problem.
**Leica DISTO™ D510**

Features:
- Accuracy: ± 1.0 mm
- Measuring range: 0.05 m - 200 m
- Digital viewfinder with 4 x zoom and high resolution colour display
- Protected against water spray and dust
- Height profile measurements
- Pythagoras function
- Horizontal distance past obstructions
- Trapezium measurements
- Free App - Leica DISTO™ sketch for creating drawings or for dimensioning photos
- Bluetooth™ interface

The Leica DISTO™ D510 allows easy and trouble-free distance measuring in outside areas. The unique combination of digital radar and 360° inclinometer permits measuring applications which would be impossible to execute using conventional instruments.

**Available on the App Store**

The App for quick sketches! Bluetooth™ Smart technology allows data transfer to iPhones and iPads. The Apple App Leica DISTO™ sketch allows you to create clear, comprehensible sketches or photos, which can be precisely dimensioned with the help of the Leica DISTO™ D510.

**Leica DISTO™ D8**

Features:
- Accuracy: ± 1.0 mm
- Measuring range: 0.05 m - 200 m
- Digital viewfinder with 4 x zoom and high resolution colour display
- Inclination sensor 360°
- Bluetooth™ interface
- Minimum/maximum measuring
- Pythagoras function
- Trapezium measurements
- Height profile measurements
- Horizontal distance past obstructions

The High-End laser distance meter for wireless data transfer to a Pocket PC/PC by means of Bluetooth™.
### Technical data:

<table>
<thead>
<tr>
<th>Ref.-No.</th>
<th>Laser mEssfix®</th>
<th>DISTO™ D210</th>
<th>DISTO™ X310</th>
<th>DISTO™ D3a BT</th>
<th>DISTO™ D5</th>
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<th>DISTO™ D8</th>
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<td>Area and volume measurement</td>
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<td>Tripod thread</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Protection class</td>
<td>IP 54</td>
<td>IP54</td>
<td>IP 65</td>
<td>IP 54</td>
<td>IP 54</td>
<td>IP 65</td>
<td>IP 54</td>
</tr>
<tr>
<td>Power supply</td>
<td>2 x 1.5 V (AAA)</td>
<td>2 x 1.5 V (AAA)</td>
<td>2 x 1.5 V (AAA)</td>
<td>2 x 1.5 V (AAA)</td>
<td>2 x 1.5 V (AAA)</td>
<td>2 x 1.5 V (AAA)</td>
<td>2 x 1.5 V (AAA)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>117x57x32 mm</td>
<td>114x50x27 mm</td>
<td>122x55x31 mm</td>
<td>127x49x27.3 mm</td>
<td>143.5x55x30 mm</td>
<td>143x58x29 mm</td>
<td>143.5x55x30 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>105 g</td>
<td>126 g</td>
<td>155 g</td>
<td>150 g</td>
<td>195 g</td>
<td>198 g</td>
<td>205 g</td>
</tr>
</tbody>
</table>

### Optional accessories:

**Tripod with Elevating Head**
Tripod for measuring from a tripod thread.
Ref.-No. 210 640

**Laser Glasses**
Allows for a better visibility of the laser point in unfavourable light conditions.
Ref.-No. 051 790

**Target plate**
Recommended for long target distances and unfavourable light conditions.
Ref.-No. 705 238
With the Nedo Winkelfix, measurements of angles are performed quickly, precisely and with the utmost ease. Simply place the Nedo Winkelfix in position and the angle can be rapidly read off from the analogue display. Two integral spirit levels ensure true horizontal and vertical positioning. Thanks to its reliability, sturdiness and convenience, the Nedo Winkelfix has proven its value to the building trade over and over again. You too will find measuring angles easier with one of our five Winkelfix models!

**Nedo Winkelfix – proven quality!**

Degrees can be read off immediately from the analogue display. Display graduations: 0.5°
Measuring accuracy: 0.25°

Horizontal and vertical spirit levels ensure precise positioning.

<table>
<thead>
<tr>
<th>Nedo Winkelfix</th>
<th>Shank length</th>
<th>Graduations</th>
<th>Measuring-range</th>
<th>Compass points</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>450 111 mini</td>
<td>430 mm</td>
<td>degrees</td>
<td>0 to 180°</td>
<td>no</td>
<td>0.9 kg</td>
</tr>
<tr>
<td>450 121 classic</td>
<td>600 mm</td>
<td>degrees</td>
<td>0 to 180°</td>
<td>no</td>
<td>1.2 kg</td>
</tr>
<tr>
<td>500 101 shorty</td>
<td>305 mm</td>
<td>degrees</td>
<td>0 to 180°</td>
<td>no</td>
<td>0.7 kg</td>
</tr>
<tr>
<td>500 111 maxi</td>
<td>600 mm</td>
<td>degrees</td>
<td>0 to 180°</td>
<td>yes</td>
<td>1.2 kg</td>
</tr>
<tr>
<td>510 111 long</td>
<td>1500 mm</td>
<td>degrees</td>
<td>0 to 180°</td>
<td>yes</td>
<td>2.5 kg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cases for Nedo Winkelfix</th>
<th>Type</th>
<th>For model Ref.-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>550 111-613</td>
<td>Case</td>
<td>450 111 Winkelfix mini</td>
</tr>
<tr>
<td>600 111-613</td>
<td>Case</td>
<td>450 121 Winkelfix classic</td>
</tr>
<tr>
<td>600 101</td>
<td>Case</td>
<td>500 101 Winkelfix shorty</td>
</tr>
<tr>
<td>600 111-613</td>
<td>Case</td>
<td>500 111 Winkelfix maxi</td>
</tr>
<tr>
<td>610 111</td>
<td>Case</td>
<td>510 111 Winkelfix long</td>
</tr>
</tbody>
</table>
Thanks to its user-friendly arrangement of the shanks, the digital angle finder Winkeltronic can be used in countless situations for measuring and transferring angles. A large display permits the measured angles to be read off with the utmost ease and convenience. Winkeltronic is robust, reliable, and its accuracy is ± 0.1°. Two integral spirit levels ensure true horizontal and vertical positioning. The hold function permits values to be retained in the display. The display can be set to zero at any given shank position.

Features:
- Resolution: 0.1°
- Accuracy: ± 0.1°
- Hold function keeps a value on the display
- Zero adjustment at any shank angle
- Integrated horizontal and vertical spirit levels
- Measurements of absolute, relative and opposite angles
- Case included as a standard

### Winkeltronic Easy

<table>
<thead>
<tr>
<th>Ref.-No.</th>
<th>Shank length</th>
<th>Resolution</th>
<th>Measuring range</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>405 100</td>
<td>400 mm</td>
<td>0.1°</td>
<td>0° to 200°</td>
<td>0.65 kg</td>
</tr>
<tr>
<td>405 120</td>
<td>600 mm</td>
<td>0.1°</td>
<td>0° to 200°</td>
<td>0.88 kg</td>
</tr>
</tbody>
</table>

### Winkeltronic

Thanks to its user-friendly arrangement of the shanks, the digital angle finder Winkeltronic can be used in countless situations for measuring and transferring angles. A large display permits the measured angles to be read off with the utmost ease and convenience. Winkeltronic is robust, reliable, and its accuracy is ± 0.1°.

Features:
- Resolution: 0.1°
- Accuracy: ± 0.1°
- Hold functions keeps a value on the display
- Zero adjustment at any shank angle
- Integrated horizontal and vertical spirit levels
- Measurements of absolute, relative and opposite angles
- Case included as a standard

### Nedo Winkeltronic

<table>
<thead>
<tr>
<th>Ref.-No.</th>
<th>Shank length</th>
<th>Resolution</th>
<th>Measuring range</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>405 215</td>
<td>450 mm</td>
<td>0.1°</td>
<td>0° to 352°</td>
<td>1.0 kg</td>
</tr>
<tr>
<td>405 315</td>
<td>600 mm</td>
<td>0.1°</td>
<td>0° to 355°</td>
<td>1.3 kg</td>
</tr>
</tbody>
</table>

### Cases for Winkeltronic and LaserWinkeltronic

<table>
<thead>
<tr>
<th>Ref.-No.</th>
<th>Type</th>
<th>For model Ref.-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>550 111-613</td>
<td>Case</td>
<td>Winkeltronic 405 215</td>
</tr>
<tr>
<td>600 111-613</td>
<td>Case</td>
<td>Winkeltronic 405 315 LaserWinkeltronic 460 612 and 460 613</td>
</tr>
</tbody>
</table>

Delivered with a case as a standard
Inclinometer Level

Inclines, gradients and angles can be easily determined with the Nedo inclinometer level. Measured values are displayed alternatively in degrees or percent. An audible signal at 0° and 90° facilitates adjustments, and therefore, visual contact with the display is not necessary. A measured value can be retained on the display when activating the hold function. The Nedo inclinometer level is easy to operate, rugged and splash-proof.

### LaserWinkeltronic

The Nedo LaserWinkeltronic combines the advantages of the latest laser technology with the proven technology of the Nedo Winkeltronic. Many applications, such as measuring and adjusting angles when installing staircases, interior outfitting, modernisation projects and measuring roof angles are considerably simplified by the use of laser technology. Time-consuming conversions are eliminated and deviations from straight lines can be seen immediately.

The laser beam travels in straight lines from the shanks of the instrument extending them up to 20 m. The Nedo LaserWinkeltronic is available with one or two laser beams.

<table>
<thead>
<tr>
<th>Ref.-No.</th>
<th>Laser modules</th>
<th>Shank length</th>
<th>Resolution</th>
<th>Measuring range</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>460 613</td>
<td>1</td>
<td>605 mm</td>
<td>0.1°</td>
<td>0° to 360°</td>
<td>1.4 kg</td>
</tr>
<tr>
<td>460 612</td>
<td>2</td>
<td>605 mm</td>
<td>0.1°</td>
<td>0° to 360°</td>
<td>1.5 kg</td>
</tr>
</tbody>
</table>

### features:

- Resolution: 0.1°
- Accuracy: ± 0.1°
- Hold function keeps a value on the display
- Zero adjustment at any shank angle
- Integrated horizontal and vertical spirit levels
- Power supply: 4 x 1.5 V batteries type (AA)

### Laser features:

- Diode class 2
- Visible red laser beam, wavelength 650 nm
- Beam diameter: 6 mm
- Range: approx. 20 m, depending on surrounding conditions
- Accuracy: ± 0.5 mm/m
- Power supply: 2 x 1.5 V batteries type (AAA)

### Technical data:

- Measuring range: 360°
- Degrees display: in 0.1° increments
- Percent display: in 0.1% increments
- Measuring accuracy: ± 0.2°
- Length: 600 mm/800 mm
- Weight: 0.7 kg/0.8 kg

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Nedo LaserWinkeltronic

Ref.-No. 460 612
FOREIGN AGENTS

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Email: info@nedo.com
1. The following Supply Conditions apply to all contracts, deliveries and other performances, including advisory services, unless they have been amended or excluded with our expressed consent. Any General Terms and Conditions of Business of the customer/purchaser are not binding even if we have not again expressly rejected them.

2. The prices applicable on the delivery date shall be determinate.

3. Deliveries valued at under Euro 400 net value of goods shall be shipped ex works. In the case of deliveries valued at over Euro 400 net value of goods, we will absorb the standard freight and insurance charges. Deliveries abroad valued at Euro 1,000 or more net order value shall be shipped free German border.

4. Consignments are made exclusive of packing. The packing on pallets and in crates is made available at prime cost.

5. Quotation and conclusion of contract
All our quotations are given without commitment. Contracts and other agreements shall become binding only by way of our written confirmation or delivery. If our sales staff or agents make oral agreements or provide assurances which go beyond the scope of our quotation, these shall always require our written confirmation in order to be valid. Unless otherwise agreed, documents forming part of the quotation, such as illustrations, drawings, particulars of weights and dimensions, are only approximate.

6. Delivery conditions and defective performances
If specific lead-times or delivery dates are not fulfilled, the customer whishing to withdraw from the contract or claim compensation or nullification shall not be released from the need to allow a suitable grace period for the performance and to issue a statement that he will refuse the performance after the expiry of the period.

7. Shipments and transfer of risk
Unless otherwise agreed, the route and mode of shipment are left at our discretion. At customer’s request the goods shall be insured. The risk shall be transferred to the custo-
miser upon despatch.

8. The goods are shipped ex-works on the recipient's risk. Any complaints concerning trans-port damage must be made within 3 days from invoice date as that the sum agreed as settlement of the invoice is at our disposal not later than the due date.

9. Prices and payment
Unless otherwise agreed, payment shall be made within 30 days from invoice date on the. Cheques and drafts are credited upon the promise of being honored, costs being deducted, and payment shall be considered duly received on the day the amount is actually at our disposal.

10. In the event of late payment, interest on defaulted payment is charged at 4% above the

11. Retention of title
We retain the title of the goods until full payment of the purchase price. In the case of goods sold by the customer as part of its business activities, we retain the title until all claims upon the customer deriving from the business relationship have been settled. This shall apply even if some or all of the claims have been entered in a current account and the balance has been drawn up and acknowledged. If substantial contractual obligations are infringed and especially in the event of delayed payment, we may take back the goods after issuing a reminder and the customer shall be obliged to deliver them up. Unless the German Hire Purchase Law applies, our taking-back or imposition of attachment shall not justify any warranty claims.

12. Liability for Defects and Warranty Claims
Minor defects shall neither constitute a right on the customer’s part to refuse acceptance nor justify any warranty claims. We accept liability for defects subject to the following conditions.
(1) We shall not accept warranty claims in the case of merely minor deviations from any war-

13. We reserve the right to deviate from the illustrations in the catalogue in order to enhance our products.

(1) To the extent that a delivery is deemed impossible, the Customer shall have the right to claim for damages, unless such impossibility is beyond our control. However, any claim for damages by the Customer shall be limited to 10% of the value of such part of the delivery item which could not be put into expedient operation as a result of the impossibility. This limitation shall not apply in case of any mandatory liability as in the case of wilful intent and gross negligence, in the case of any breach of any essential contractual duties, however, bodily injury or health impairment or in the case of any breach of any essential contractual duties, however, any claim for damages based on a breach of an essential contractual duty, however, shall be limited to foreseeable damage or losses as are typical for contracts such as the one between the Contracting Parties, except in the event of wilful intent or gross negligence.

15. Other Claims for Damages
(1) Ed claims for damages or compensation claims on the part of the Customer (herein-

16. Place of Performance, Jurisdiction, Applicable Law
The place of performance and exclusive place of jurisdiction for all deliveries and payments (incl. legal action based on disallowed cheques or bills of exchange, as well as all disputes arising between the Parties shall be Düsseldorf, Germany, in so far as the Customer is a registered trader, a legal entity under public law or a state-sponsored special fund. All contractual relations between the Contracting Parties shall be governed solely by the laws of the Federal Republic of Germany, excluding the Hague Convention relating to the Uniform Law on the International Sale of Goods.