Explanations

In our catalogue you will find several pictograms beside the text description. They should be helpful for a quick and easier explanation of the articles and their attributes.

### Protection (IP-Code) acc. to DIN 40050 / IEC 60529 etc.

- IP 40  
  Protected against solid particles Ø > 1 mm
- IP 41  
  Protected against solid particles Ø > 1 mm and drop water resistant
- IP 44  
  Splash water resistant
- IP 51  
  Drop water resistant
- IP 52  
  Drop water resistant
- IP 53  
  Dust and spray water resistant
- IP 54  
  Dust and spray water resistant
- IP 62  
  Dust and spray water proof
- IP 63  
  Dust and spray water proof
- IP 64  
  Dust and splash water proof
- IP 65  
  Dust and jet water proof
- IP 67  
  Water and oil tight (at times)
- IP 68  
  Water and oil tight (permanent)
- IP 69  
  Article is explosion proof
- IP 69  
  Article with UL-certificate (american safety norm)

### Several Icons

- Article Number
- Reading / Resolution
- Weight in kg
- Cross section of the article
- Max. total accuracy (±)
- Repeatability (±)
- Individual measuring range
- Article dimension
- Measuring- and weighing-unit selectable or switchable
- Corresponding battery included
- Corresponding cell battery included
- Corresponding cell battery included
- Corresponding lithium battery included
- Corresponding lithium battery included
- Accu
- Power supply
- Laser protection class
- Magnet power
- Induction
- Laser wavelength
- Shock proof
- Stand out
- Reading in mm and inch
- Reading in cm and inch
- Article with ABS/INC measuring system
- Article with ABSOLUTE measuring function

### Manufacturing process

- Article with laser engraved scale / graduation
- Article with etched scale / graduation
- Article with printed scale / graduation (Pad print)
- Hardened
- Stainless steel

### Icons for data process

- RS232 data output by data cable
- Opto RS232 data output
- Proximity data output, inductive, contactless
- Data output by USB and data cable
- Data output by USB and Mini USB (compatible with Mitutoyo Digimatic)
- Wireless communication (WiFi) possible
- Software on CD-Rom

### ATTENTION

We charge transport and packing costs for articles marked with *!
About the Certification:
We are also able to quote all DIN measuring tools with a certificate to VDI/VDE/DGQ 2618. Measuring tools manufactured at works standard will be certificated according to this norm. The calibrations will be done by an external calibration laboratory. The delivery time for external calibration will take approx one week. Calibration orders can’t be cancelled and calibrated goods are excluded from sale of return. Whether you expect a calibration by laboratory of your choice, we are unable to guarantee for passing. Compensation of refund of costs are also impossible.

<table>
<thead>
<tr>
<th>Norms, accuracy-classes, regulations</th>
<th>Art of package for each article</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC I Article fulfils the respective EC Class standard</td>
<td>Article will be packed in a carton box</td>
</tr>
<tr>
<td>EC II Article fulfils the respective EC Class standard</td>
<td>Article will be packed in a sturdy box (wood, plastic or aluminum)</td>
</tr>
<tr>
<td>E1 Article fulfils the respective verification standard</td>
<td>Article will be packed in a leatherette pouch</td>
</tr>
<tr>
<td>CC Workshop calibration certificate, inclusive</td>
<td>Article will be packed in a PVC pouch</td>
</tr>
<tr>
<td>TC Article with test certificate, marked with Ident.-No.</td>
<td>Article will be packed in a sleeve</td>
</tr>
<tr>
<td>CE Article with CE classification</td>
<td>Article will be sealed in a foil</td>
</tr>
<tr>
<td>MIDCODE Directive of the European Parliament and of the council on measuring instruments</td>
<td>Article will be packed in a DIY plastic pouch with hanging card</td>
</tr>
<tr>
<td>T2 Article with strengths tolerances acc. to DIN 2275</td>
<td>Article will be packed in a plastic film pouch with hanging card</td>
</tr>
<tr>
<td>T3 Article with strengths tolerances acc. to DIN 2275</td>
<td>Article comes with wall hanging card</td>
</tr>
<tr>
<td>ASTM Article fulfils the respective American standard</td>
<td>Article will be packed in a blister packing</td>
</tr>
<tr>
<td>BS Article fulfils the respective British standard</td>
<td>Article will be packed a clear plastic box</td>
</tr>
<tr>
<td>JIS K Article fulfils the respective Japanese standard</td>
<td>Carry bag, for outdoor use</td>
</tr>
<tr>
<td>DIN Article fulfils the respective DIN standard</td>
<td>Article delivered on a pallet</td>
</tr>
<tr>
<td>DIN EN Article fulfils the respective DIN EN standard</td>
<td></td>
</tr>
<tr>
<td>ISO Article fulfils the respective ISO standard</td>
<td></td>
</tr>
<tr>
<td>DIN ISO Article manufactured acc. to tolerances of workshop standard</td>
<td></td>
</tr>
<tr>
<td>TÜV Article with seal: “TÜV/Geprüfte Sicherheit (GS)”</td>
<td></td>
</tr>
<tr>
<td>IEC / EN Article fulfils the respective norm standard</td>
<td></td>
</tr>
</tbody>
</table>

Workshop or „DAkkS“-Calibration (German Calibration Service)
Calibrated instruments available for extra charge. Please send us your specific inquiry.

<table>
<thead>
<tr>
<th>Quality categories</th>
</tr>
</thead>
<tbody>
<tr>
<td>★★★★★ Product for highest demands</td>
</tr>
<tr>
<td>★★★★★ Industry and craft</td>
</tr>
<tr>
<td>★★★★★ Craft</td>
</tr>
<tr>
<td>★★★★★ DIY and training</td>
</tr>
</tbody>
</table>

Product specifications
- Caliper jaw length
- Measuring internal dimension
- Caliper jaws (cross shape)
- Caliper jaws (knife shape)
- Depth Gauge
- Thumbroll
- Fine adjustment
- Thread pitch
- Measuring Inside
- Measuring outside
- Pointer rotation
- Setting gauge
**Stopwatches**

**Electr. Digital Stopwatch • IP54**
- with basic functions
- with 2-button-operation
- sturdy ABS-plastic housing
- splash water proof acc. to DIN 40050 / IEC 60529
- LCD display with clear reading
- Start / Stop / Reset - Addition / Split / Dual measuring
- incl. 1x 1.5 V battery (type AA, art.-no.: 60 9282), with lanyard, protection pouch and operation manual

additional functions for art.-no. 58 0195
- 5 memory function for 25 split- and 25 lap-times
- Start / Stop / Reset-Addition / Split / Lap / Daytime

<table>
<thead>
<tr>
<th>Model</th>
<th>sec.</th>
<th>indicating range hrs. / min. / sec.</th>
<th>LCD digits</th>
<th>digit height mm</th>
<th>operation button</th>
<th>mm</th>
<th>Kg</th>
<th>Art.-no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>58 0191</td>
<td>1/100</td>
<td>9 / 59 / 59.99</td>
<td>7</td>
<td>8</td>
<td>2</td>
<td>82 x 61 x 28</td>
<td>0.090</td>
<td>58 94001</td>
</tr>
<tr>
<td>58 0195</td>
<td>1/100</td>
<td>9 / 59 / 59.99</td>
<td>7</td>
<td>8</td>
<td>2 / 2</td>
<td>82 x 61 x 28</td>
<td>0.090</td>
<td>58 94001</td>
</tr>
</tbody>
</table>

**Electr. Digital Stopwatch • IP54**
- with basic functions
- with 1-button-operation
- sturdy ABS-plastic housing
- splash water proof acc. to DIN 40050 / IEC 60529
- LCD display with clear reading
- Start / Stop / Reset - Split / Lap / Addition
- all three times can be switched-over at any time
- count-down with repeat
- separate system- and memory-reset, daytime, date
- 60 data memory per type of time
- Split time can be pre-set from clock time
- incl. 1x 1.5 V battery (type AA, art.-no.: 60 9282) with lanyard, protection pouch and operation manual
- with interface for printer art.-no. 58 0290

<table>
<thead>
<tr>
<th>Model</th>
<th>sec.</th>
<th>indicating range hrs. / min. / sec.</th>
<th>LCD digits</th>
<th>digit height mm</th>
<th>operation button</th>
<th>mm</th>
<th>Kg</th>
<th>Art.-no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>58 0202</td>
<td>1/100</td>
<td>9 / 59 / 59.99</td>
<td>7</td>
<td>6</td>
<td>1 / 3</td>
<td>82 x 61 x 28</td>
<td>0.090</td>
<td>58 94001</td>
</tr>
</tbody>
</table>

**Electr. Digital Stopwatch • IP54**

- for industrial time recording
- sturdy ABS-plastic housing
- LCD display with clear reading
- Start / Stop / Reset - Split / Lap
- both times can be switched-over at any time
- separate system- and memory-reset, daytime, date
- 60 data memory for Split and Lap
- incl. 1x 1.5 V battery (type AA, art.-no.: 60 9282), with lanyard, protection pouch and operation manual

additional functions for art.-no. 58 0201
- with interface for printer art.-no. 58 0290 (plug-in connection in battery cover)

<table>
<thead>
<tr>
<th>Model</th>
<th>min.</th>
<th>indicating range min.</th>
<th>LCD digits</th>
<th>digit height mm</th>
<th>operation button</th>
<th>mm</th>
<th>Kg</th>
<th>Art.-no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>58 0200</td>
<td>1/100</td>
<td>99999.99</td>
<td>7 / 2</td>
<td>6</td>
<td>1 / 3</td>
<td>82 x 61 x 28</td>
<td>0.090</td>
<td>58 94001</td>
</tr>
<tr>
<td>58 0201</td>
<td>1/100</td>
<td>99999.99</td>
<td>7 / 2</td>
<td>6</td>
<td>1 / 3</td>
<td>82 x 61 x 28</td>
<td>0.090</td>
<td>58 94001</td>
</tr>
</tbody>
</table>
**Electr. Digital Stopwatch**

- for standard requirements
- with 2-button-operation
- sturdy ABS-plastic housing
- LCD display with clear reading
- start / stop / reset-addition / split / dual measuring
- incl. 1x 1.5 V battery (type SR54, art.-no.: 20 20199), with lanyard and operation manual

<table>
<thead>
<tr>
<th>ARTN</th>
<th>indicating range</th>
<th>LCD digits</th>
<th>digit height</th>
<th>operation button</th>
<th>mm</th>
<th>kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>58 0210</td>
<td>1/100 9 / 59 / 59.99</td>
<td>7</td>
<td>6.5</td>
<td>2</td>
<td>66 x 70 x 21</td>
<td>0.062</td>
</tr>
</tbody>
</table>

**Electr. Digital Stopwatch • IP54**

- for standard requirements
- with 3-button-operation
- sturdy ABS-plastic housing
- splash water proof acc. to DIN 40050 / IEC 60529
- LCD display with clear reading
- start / stop / reset-lap / split / daytime / date / alarm with snooze
- art.-no. 58 0505 with 1.5 V battery (type LR44, art.-no. 20 20192/B), art.-no. 58 0506 with 3 V battery (type CR2032, art.-no. 20 02093)
- with lanyard, protection pouch and operation manual

additional functions for art.-no. 58 0506
- memory for 10 laps
- recall of lap and split times

<table>
<thead>
<tr>
<th>ARTN</th>
<th>indicating range</th>
<th>LCD digits</th>
<th>digit height</th>
<th>operation button</th>
<th>mm</th>
<th>kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>58 0505</td>
<td>1/100 9 / 59 / 59</td>
<td>6</td>
<td>11</td>
<td>3</td>
<td>85.5 x 64 x 22</td>
<td>0.076</td>
</tr>
<tr>
<td>58 0506</td>
<td>1/100 9 / 59 / 59.99</td>
<td>7</td>
<td>5 / 4</td>
<td>3</td>
<td>85.5 x 64 x 22</td>
<td>0.078</td>
</tr>
</tbody>
</table>

**Electronic Digital Table Timer**

- with adjustable alarm signal
- for industry, schools, laboratories, sporting events, etc.
- sturdy ABS-plastic housing
- LCD display with clear reading, digit height 22 + 8 mm
- start / stop / reset-addition - Flyback - Count-Down
- 4 timer fully programmable, Start / Stop operation, either separate or together
- repeat, manually or automatically
- with daylight
- operation temperature –10° ~ +55° C
- incl. 1x 1.5 V battery (type AA, art.-no.: 60 9282), and operation manual

<table>
<thead>
<tr>
<th>ARTN</th>
<th>indicating range</th>
<th>LCD digits</th>
<th>mm</th>
<th>Kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>58 0104</td>
<td>1/100 Min. 1/10 Sek. 999 min. / 99/100 min. 9 hrs. / 59 min. / 59 sec. / 1/10 sec.</td>
<td>3</td>
<td>175 x 130 x 40/95</td>
<td>0.390</td>
</tr>
</tbody>
</table>
**Mechanical Precision Addition Stopper**

- Low cost, precise stopwatch in plastic housing
- Sturdy ABS-plastic housing
- With lanyard
- Shock-protected pinlever

<table>
<thead>
<tr>
<th>ART No</th>
<th>min. / sec.</th>
<th>indicating range</th>
<th>operation button</th>
<th>Ø mm</th>
<th>KG</th>
</tr>
</thead>
<tbody>
<tr>
<td>58 0152</td>
<td>1/5 sec.</td>
<td>30</td>
<td>3</td>
<td>55</td>
<td>0.085</td>
</tr>
</tbody>
</table>

**Mechanical Precision Stopwatch • IP54**

- Highly precise mechanical stopwatch for industry and sport
- Diamond polished metal housing, with pinlever
- Shock-, dust- and splash water proof acc. to DIN 40050 / IEC 60529

Additional functions for art.-no. 58 0141
- Doublehand timer, with trail finger for the recording of any number of intermediate times

Additional functions for art.-no. 58 0173
- Crown timer, the most commonly used system for all simple time measurements without interruption of the measuring process. The most selling models.

Additional functions for art.-no. 58 0182
- Addition timer, for stopping of single times

<table>
<thead>
<tr>
<th>ART No</th>
<th>min. / sec.</th>
<th>indicating range</th>
<th>jewels</th>
<th>operation button</th>
<th>Ø mm</th>
<th>KG</th>
</tr>
</thead>
<tbody>
<tr>
<td>58 0141</td>
<td>1 / 10</td>
<td>15</td>
<td>7</td>
<td>3</td>
<td>55</td>
<td>0.120</td>
</tr>
<tr>
<td>58 0173</td>
<td>1 / 5</td>
<td>30</td>
<td>7</td>
<td>1</td>
<td>55</td>
<td>0.120</td>
</tr>
<tr>
<td>58 0182</td>
<td>1 / 100 min.</td>
<td>30</td>
<td>7</td>
<td>2</td>
<td>55</td>
<td>0.120</td>
</tr>
</tbody>
</table>