In the automotive industry, lots of car testers are used, for example for testing the ignition, to detect air conditioner leakages or for high-pressure tests in diesel-fuelled vehicles. Endoscopes, for instance, are used in a wide range of applications. Places which are difficult to access can be viewed by means of an endoscope without any problems. A multimeter also gives important information and is a valuable device to search for errors in electronic systems effectively. Car testers are essential particularly in maintenance and servicing of cars. We offer all-in-one devices with a wide variety of functions which are therefore very popular with car specialists.
### PCE-AT 5
**Tachometer f. Two-/Four-Stroke Eng.**
- measures the revolutions of all common combustion motors with electric ignition (1 cylinder two-stroke ... 8 cylinders four-stroke)
- 1.10 m test lead with inductive clip to place on ignition cable
- display with backlight
- with torch

#### TECHNICAL SPECIFICATIONS
- **Meas. range**: 100 ... 20,000 RPM (suitable for combustion engines (1 cylinder two-stroke ... 8 cylinders four-stroke)
- **Resolution**: 1 RPM
- **Accuracy**: ±10 RPM
- **Measuring adaptor/crocodile clip with 1.1 m cable**
- **Sampling rate**: 0.5 s
- **Case**: ABS plastic
- **Display**: LCD, 6 digits, backlight
- **Functions**: torch
- **Power supply**: 1 x 9 V block battery
- **Operating cond.**: 0 ... +50 °C
- **Dimensions**: 160 x 58 x 39 mm
- **Weight**: 177 g

**INCLUDES**
- Tachometer, test lead with inductive clip, battery, instruction manual

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>ITEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>K-PCE-AT 5</td>
<td>tachometer</td>
</tr>
</tbody>
</table>

### PCE-BTT 1
**Tooth Belt Tension Tester**
- to test and adjust the tooth belts
- measures tension of nearly all types of vehicles, in line with manufacturer specifications
- sensor can be attached to the tooth belt with one hand
- Automatic Power Off after 5 min

#### TECHNICAL SPECIFICATIONS
- **Measurement range**: 0 ... 750 N / 0 ... 120 lb / 0 ... 77 Kg / 0 ... 114 seem
- **Resolution**: 0.1 N
- **Accuracy**: ±5 %
- **Functions**: Automatic Power Off
- **Display**: Low, OK, Hi / digital
- **Max. belt width**: 36 mm
- **Overload alarm**: 750 N
- **Max. capacity**: 850 N
- **Cable length**: 1.4 m
- **Assembly**: one-hand assembly of sensor
- **Power supply**: 4 x 1.5 V AAA
- **Operating conditions**: 0 ... +50 °C, <85 % RH
- **Dimensions**: 35 x 62 x 33 mm
- **Weight**: 335 g

**INCLUDES**
- Belt tension tester, sensor with 1.4 m cable, 4 batteries, carrying case, instruction manual

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>ITEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>K-PCE-BTT 1</td>
<td>tooth belt meter</td>
</tr>
</tbody>
</table>

### PCE-BST 1
**Brake Service Tool for many Vehicles**
- opens and closes the parking brake
- reads / deletes trouble codes for vehicles with electronic parking brake; suitable for EPB, SBC and PBM systems
- brake leak detection; indication of brake fluid change; adjustment of brake lining thickness
- emergency release test / engine control unit (ECU) and brake warning light can be reset

#### TECHNICAL SPECIFICATIONS
- **Types of vehicle**: Mercedes Benz E211/E219 (until 06), R230, S221 (until 07), VW Passat (from 05), Audi A5 (from 07), A6/A8 (from 04), Volvo XC70 (08-09), XC60 (09), V70 (08-09), S80 (07-09), Ford Focus C-MAX (02, 07), LS (03-06)
- **Parking brake**: opens / closes
- **Systems**: suitable for EPB, SBC and PBM
- **Emerg. rel. test**: yes
- **Display**: LC display, adjustable contrast
- **Interface**: OBDII / USB
- **Power supply**: 8 ... 18 volts (via OBD interface)
- **Operating cond.**: 0 ... +60 °C
- **Dimensions**: 185 x 85 x 35 mm
- **Weight**: 750 g

**INCLUDES**
- Elektronic brake service tool, bag, OBD2 connection cable, USB cable, instruction manual

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>ITEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>K-PCE-BST 1</td>
<td>brake service tool</td>
</tr>
</tbody>
</table>
# PCE-OBD 2

**Diagnostic Scanner for all OBD II Vehicles of Common Producers**

- readout of live data and trouble codes / Interne Fehlercode-Tabelle
- freeze frame information / graphical indication of processes, e.g. revolutions during live data recording
- readout of the VIN for all vehicles from year of manufacture 2002 supporting Mode 9
- considerable information about all sensors of the engine control
- large LC display with backlight and adjustable contrast
- clear text error indication in English / trouble code updates available for free download

### TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Readable codes</td>
<td>OBD codes and manufacturer-specific codes P0, P2, P3, U0, U1</td>
</tr>
<tr>
<td>Protocols</td>
<td>KW 2,000, CAN, PWM, VPW and ISO9141</td>
</tr>
<tr>
<td>Vehicles supported</td>
<td>US vehicles from 1996 with OBD-II, European/Asian vehicles from 2001 with OBD-II (Diesel from ’04)</td>
</tr>
<tr>
<td>Display</td>
<td>160 x 105 pixel-LCD with backlight and adjustable contrast</td>
</tr>
<tr>
<td>Additional functions</td>
<td>graphical indication of processes, e.g. RPM during live data recording, live data recording and internal indication via display, broad sensor information about all important sensors of the engine control</td>
</tr>
<tr>
<td>Interface</td>
<td>USB</td>
</tr>
<tr>
<td>Operating cond.</td>
<td>0 ... +60 °C</td>
</tr>
<tr>
<td>Power supply</td>
<td>external: 8 ... 18 V via vehicle battery / internal: 9 V block</td>
</tr>
<tr>
<td>Dimensions</td>
<td>185 x 85 x 35 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>650 g</td>
</tr>
</tbody>
</table>

### INCLUDES

- Vehicle diagnostic scanner, OBD 2 connection cable, data cable, 9 V block battery (internal), instruction manual

### ITEM NO. | ITEM
--- | ---
K-PCE-OBD 2 | vehicle diagnostic scanner

# NT100

**OBD2 Data Logger f. Engine Damage**

- works for OBD II / EOBD cars, SUVs, mini vans and vans up to 7.5 t gross vehicle weight / memory capacity 8 MB
- complete OBDII support with CAN compatibility
- shows 4 engine PIDs in one display
- resets the MIL

### TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Memory capacity</td>
<td>8 MB</td>
</tr>
<tr>
<td>Runtime</td>
<td>max. 300 h</td>
</tr>
<tr>
<td>Sampling rate</td>
<td>1 s</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±2 s/day</td>
</tr>
<tr>
<td>Protocols supported:</td>
<td>J1859-41,6, J1850-10.4, ISO9141, KWP2000 (ISO 14230), and CAN (Control Area Network ISO 11898)</td>
</tr>
<tr>
<td>Interface</td>
<td>vehicle OBD2 plug with 16 pins</td>
</tr>
<tr>
<td>Power supply</td>
<td>external: 8 ... 18 V from car or computer, internal: Li battery</td>
</tr>
<tr>
<td>Operating conditions</td>
<td>-40 ... +85 °C</td>
</tr>
<tr>
<td>Dimensions</td>
<td>46 x 27 x 45 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>28 g</td>
</tr>
</tbody>
</table>

### INCLUDES

- Data logger, vehicle monitor, USB cable, instruction manual

### ITEM NO. | ITEM
--- | ---
K-NT100 | OBD logger
### NT600

**OBD Diagnostic Scanner**
- detects engine, ABS, transmission and airbag damage
- for American, Asian and European vehicles
- works for OBD I / OBD II vehicles, SUVs, mini vans and vans up to 7.5 t gross vehicle weight
- CAN compatible

**TECHNICAL SPECIFICATIONS**
- Tests: engine ABS, gearbox and airbag of American, Asian and European cars
- Display: 128 x 64 pixels, backlight
- Menu navigation: several languages
- Power supply:
  - external: 8 ... 18 V via car battery
  - internal: 4 x 1.5 V AA batteries
- Operating conditions: 0 ... +60 °C
- Dimensions / weight: 35 x 98 x 210 mm / 1.0 kg

**INCLUDES**
- OBD diagnostic scanner, USB cable, connection cable, plug, instruction manual

**ITEM NO. ITEM**
- NT600 trouble code reader

### ADD750

**Ignition Coil Tester**
- measures the ignition voltage and arc duration
- adjustable sensitivity
- optical and acoustic signal
- easy to handle / quick results

**TECHNICAL SPECIFICATIONS**
- Indications:
  - LED red: arc duration is incorrect
  - LED green: arc duration is correct
- Auto Power Off: after 2 min
- Power supply: 3 V CR2032 button cell
- Operating conditions: 0 ... +60 °C
- Dimensions: 320 x 130 x 25 mm
- Weight: 85 g

**INCLUDES**
- Ignition coil tester, probe, signal receiver, instruction manual

**ITEM NO. ITEM**
- ADD750 ignition coil tester

### ADD760

**Ignition Coil Tester**
- measures the ignition voltage / indicates polarity
- probe extension makes ignition cable easily accessible
- test or measuring mode selectable
- easily readable LC display

**TECHNICAL SPECIFICATIONS**
- Indications:
  - one LED to show a spark
  - two LEDs to show polarity
- Recognition: in quick check mode only from 5 kV,
  measuring mode selectable
- Display: LCD
- Auto Power Off: after 30 s
- Power supply: 3 x CR2016 button cells
- Operating conditions: 0 ... +60 °C
- Dimensions: 320 x 130 x 25 mm / 85 g

**INCLUDES**
- Ignition coil tester, probe, signal receiver, manual

**ITEM NO. ITEM**
- ADD760 ignition coil tester
Car Measuring Device

**MBT 261**

**Car Battery Tester 6 V and 12 V**

- resilient design / scale display
- easy operation by means of rocker switch
- starter and charging circuit measurements possible
- battery is even tested during operation

**Technical Specifications**

- Measuring objects: 6 V and 12 V starter batteries
- Load current: 100 A
- Display: pointer instrument with different scales 6 V, 12 V, load current, operation via rocker switch
- Dimensions: 340 x 180 x 90 mm
- Weight: 1,500 g

**Includes**

- Car battery tester, instruction manual

**ITEM NO.** K-MBT 261

**ITEM** vehicle battery tester

---

**MBT 101**

**Car Battery Tester for 12 V Car Batt.**

- automatic test process / measurement within 1 s
- different standards selectable: SAE, DIN, EN
- five-stage good/poor indication
- clear text and LED indication

**Technical Specifications**

- Measuring object: 12 V starter batteries
- Battery norms: SAE, DIN, EN
- Cold cranking amps: 130 ... 1,250 A
- Display: 4-digit 7-segment display and LED indicator
- Meas. cable length: 750 mm
- Power supply: 9 V block battery
- Dimensions / weight: 180 x 90 x 40 mm / 450 g

**Includes**

- Battery tester, protective holster, battery, manual

**ITEM NO.** K-MBT 101

**ITEM** vehicle battery tester

---

**ADD8630**

**Battery Tester up to 18 V with Printer**

- automatic analysis
- long connection cable
- integrated printer

**Technical Specifications**

- Voltage range: 9 ... 18 V
- Accuracy: ±0.5 mΩ
- Standards: CCA, IEC, EN, JIS, DIN battery health and discharge condition, voltage
- Test frequency: 100 Hz
- Operating conditions: 0 ... +50 °C
- Dimensions: 37 x 103 x 207 mm

**Includes**

- Vehicle battery tester, case, print paper, manual

**ITEM NO.** K-ADD8630

**ITEM** car battery tester
Car Measuring Device

**PCE-S 41**

Electronic Stethoscope
- ideal for maintenance and servicing
- localisation of bearing, machine and equipment damage
- headphones protect from background noises
- continuous volume control
- two screwable sensors (70 + 290 mm)

**ADD350D**

Engine Stethoscope w. Crocodile Clip
- easy to handle
- 2 channels
- broad frequency range
- headphones included
- quick results

**ADD3500**

Stethoscope - Vehicle Noise Detector
- vehicle noise detector to detect sources of disturbance
- 6 very sensitive microphones
- headphones included
- with integrated speakers

---

**TECHNICAL SPECIFICATIONS**

- **Frequency range**: 100 Hz ... 10 kHz
- **Volume**: adjustable
- **Speaker**: 8 W
- **Operating cond.**: -10 ... +55 °C
- **Power supply**: 1 x 9 V block (incl.)
- **Case**: ABS plastic
- **Headphones**: 3.5 mm jack plug, adjustable headband
- **Dimensions**: device: 206 x 50 x 32 mm; sensor: 1 x 290 mm; 1 x 70 mm (length)
- **Sensor material**: steel
- **Weight**: 240 g incl. battery

**INCLUDES**
- Stethoscope, headphones, 1 m cable, sensors (length: 70 and 290 mm), battery, carrying bag, manual

**ITEM NO.** | **ITEM**
---|---
K-PCE-S 41 | electronic stethoscope

---

**TECHNICAL SPECIFICATIONS**

- **Frequency range**: 30 Hz ... 15 kHz
- **Output capacity**: adjustable (80 levels)
- **LE display**: battery / power / volume
- **Max. output voltage**: 250 mV
- **Operating conditions**: -10 ... +45 °C
- **Probe length**: 29 cm
- **Power supply**: 2 x AAA / LR03
- **Dimensions**: 125 x 81 x 30 mm

**INCLUDES**
- Stethosc., probe, tongs, batteries, headphones, manual

**ITEM NO.** | **ITEM**
---|---
K-ADD350D | engine stethoscope

---

**TECHNICAL SPECIFICATIONS**

- **Display**: level display via 12 LEDs
- **Operating conditions**: -10 ... +45 °C
- **Power supply**: receiver: 6 x AA; transmitter: 4 x AAA
- **Dimensions receiver**: 265 x 210 x 50 mm
- **Dimensions transmitter**: 57 x 157 x 35 mm

**INCLUDES**
- Vehicle noise detector, transmitter, clamping tongs, cable tie, batteries for receiver and transmitter, tape, headphones, carrying case, instruction manual

**ITEM NO.** | **ITEM**
---|---
K-ADD3500 | Stethoscope
Car Measuring Device

**PCE-LES 100**

LED Stroboscope up to 99,990 RPM

- pulse doubling and separation possible
- tripod connection / light-weight, handy case
- one-hand operation via 6 keys
- 60 ... 99,990 flashed
- battery life 11 h

**TECHNICAL SPECIFICATIONS**

Measurement range 60 ... 99,990 rpm
1 ... 1,666 Hz
Display 5-digit LED display
Flash pulse doubling and separation possible / fine adjustment
Phase shifting yes, 0 ... 360°
Accuracy 60 ... 17,300: ±1 LSD
17,300 ... 99,990: ±0.009 %
Lamp LED
Illuminance 370 lux at 50 cm
Power supply 2 x AA batteries
Operating conditions -10 ... 50 °C
Dimensions / weight 124 x 71 x 33 mm / 173 g

**INCLUDES**

Vehicle stroboscope lamp, batteries, protective bag, instruction manual

**ITEM NO.** K-PCE-LES 100  **ITEM** stroboscope

**OPTIONAL ACCESSORIES**

K-STAT tripod

---

**MDB01M**

Ignition Light Gun

- to check petrol and diesel engines
- measures dwell angle and ignition control
- revolution / voltage measurement
- comes in carrying case
- measures start of fuel delivery and advance corrector
- powered by microprocessor

**TECHNICAL SPECIFICATIONS**

Ignition control 0.1° ... 99.9°
Revolutions 300 ... 9,999 RPM
Dwell angle 0° ... 60°
Display LED
Voltage 10 V ... 18 V
Weight 3.0 kg
Packaging in protective case

**INCLUDES**

Automotive tester with petrol cable, diesel cable set with piezo clamp, carrying case, instruction manual

**ITEM NO.** K-MDB01M  **ITEM** ignition light gun

**OPTIONAL ACCESSORIES**

K-STAT tripod

---

**MDG83M**

Ignition Timing Gun

- to test petrol engines
- measures ignition control, revolutions, voltage
- tests contact breaker and dwell angle
- powered by processor

**TECHNICAL SPECIFICATIONS**

Ignition control 0.1° ... 99.9°
Revolutions 300 ... 9,999 RPM
Dwell angle 0° ... 99°
Voltage 10 V ... 18 V
Weight 1.5 kg
Packaging in protective case

**INCLUDES**

Ignition timing gun, adaptor cable with needle clamp, petrol cable set with inductive clamp, case, manual

**ITEM NO.** K-MDG83M  **ITEM** ignition timing gun

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www.pce-instruments.com/us
### PCE-SG - Refractometer for Antifreeze Agent

- **quickly and easily determines the proportion of antifreeze agent in solutions**
- **suitable for industrial and automotive purposes**
- **handy, gives accurate readings**

<table>
<thead>
<tr>
<th>TECHNICAL SPECIFICATIONS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement range</td>
<td>0 ... -50 °C coolant / antifreeze agent, 0 ... -40 °C cleaning agent</td>
</tr>
<tr>
<td>Resolution</td>
<td>5 °C antifreeze agent</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±5 °C antifreeze agent</td>
</tr>
<tr>
<td>Temperature comp.</td>
<td>no</td>
</tr>
<tr>
<td>Dimensions</td>
<td>157 x Ø 29 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>230 g</td>
</tr>
</tbody>
</table>

**INCLUDES**
- Refractometer, pipette, screwdriver, carrying box, instruction manual

**ITEM NO.** | **ITEM**
---|---
K-PCE-SG | refractometer

**OPTIONAL ACCESSORIES**
- K-R-COV plastic folding lid
- K-R-COV-R plastic folding lid incl. ring

### PKH 2.0 - Pedal Force Meter for Brake Pedals

- **range of 0 ... 1,500 N for compressive forces**
- **various readout possibilities**
- **for cars and trucks**
- **mechanical overload protection**

<table>
<thead>
<tr>
<th>TECHNICAL SPECIFICATIONS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal load</td>
<td>0 ... 1,500 N</td>
</tr>
<tr>
<td>Resolution</td>
<td>1 µm</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±7 digits at &lt;200 µm</td>
</tr>
<tr>
<td>Protection class</td>
<td>IP 65</td>
</tr>
<tr>
<td>Display</td>
<td>12 digits, 2 lines, LC display</td>
</tr>
<tr>
<td>Case</td>
<td>ABS (IP 40 protection)</td>
</tr>
<tr>
<td>Functions</td>
<td>mechanical overload protection</td>
</tr>
<tr>
<td>Approval</td>
<td>APK approved (Netherlands)</td>
</tr>
<tr>
<td>Power supply</td>
<td>4 x AA batteries</td>
</tr>
<tr>
<td>Operating conditions</td>
<td>0 ... +50 °C</td>
</tr>
<tr>
<td>Dimensions</td>
<td>(pedal force meter) 50 mm (W) x 70 mm (L) x 27 mm (H)</td>
</tr>
<tr>
<td></td>
<td>(hand-held terminal) 78 mm (W) x 145 mm (L) x 44 mm (H)</td>
</tr>
</tbody>
</table>

**INCLUDES**
- Pedal force meter (0 ... 1,500 N) , hand-held terminal HT 6.0, instruction manual

**ITEM NO.** | **ITEM**
---|---
K-PKH 2.0 | pedal force meter

**OPTIONAL ACCESSORIES**
- K-CAL-FG calibration certificate

### PCE-CT 25 - Car Paint Thickness Gauge (Fe / nFe)

- **measures on steel / ferrous and non-ferrous metals**
- **integrated probe, easy to clean**
- **easy to operate (even for unexperienced persons)**
- **Automatic Power Off**

<table>
<thead>
<tr>
<th>TECHNICAL SPECIFICATIONS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement range</td>
<td>0 ... 1,000 µm</td>
</tr>
<tr>
<td>Resolution</td>
<td>1 µm</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±3 % ±4 digits at &gt;200 µm</td>
</tr>
<tr>
<td>Materials</td>
<td>steel, iron, non-ferrous metals</td>
</tr>
<tr>
<td>Display</td>
<td>3 1/2-digit LC display with backlight</td>
</tr>
<tr>
<td>Functions</td>
<td>Automatic Power Off, calibration function</td>
</tr>
<tr>
<td>Power supply</td>
<td>9 V block battery</td>
</tr>
<tr>
<td>Operating conditions</td>
<td>0 ... +50 °C</td>
</tr>
<tr>
<td>Dimensions</td>
<td>148 x 105 x 42 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>157 g (incl. battery)</td>
</tr>
</tbody>
</table>

**INCLUDES**
- Car paint thickness gauge, calibration standard, battery, bag, instruction manual

**ITEM NO.** | **ITEM**
---|---
K-PCE-CT 25 | coating thickness meter

**OPTIONAL ACCESSORIES**
- 1 mil = 1 / 1000 inch = 0.0254 mm = 25.4 µm