

# BEA 030 and BDM 300

For exact engine speed and temperature measurement



BEA 030 Bluetooth



BDM 300

## BEA 030: For engine speed and temperature measurement

The new, practical module for fast and simple measurement of engine speed and temperature values.

### The BEA 030 at a glance:

- ▶ PC control via Bluetooth or USB
- ▶ Connectivity for BDM 300
- ▶ Power supply for BDM 300
- ▶ Transfer of measurement data from BDM 300 to PC

**Order number:** 0 684 440 000

Technical data	BEA 030
Dimensions (L x W x H)	17 x 12 x 3.5 mm
Weight	0.35 kg
Supply voltage Power supply unit	100 – 240 V, 50 – 60 Hz
Operating temperature range	5 °C to 45 °C

Designation	Measurement range	Resolution
Battery voltage	9 to 32 V	0.1 V
Oil temperature	- 20 °C to 150 °C	0.16 °C
B+/B-	450 to 9,500 rpm	20 rpm
K11/15, TN/TD	100 to 12,000 rpm	10 rpm

## BDM 300: The testing module for engine speed measurement on diesel and gasoline vehicles

A handy unit for rapid engine speed sensing by recording structure-borne and airborne sound signals of the engine.

### The BEA 300 at a glance:

Speed sensing on diesel and gasoline engines  
Efficient: No need to lower the driver's cab on commercial vehicles  
Timesaving: Adapts easily to passenger car and commercial vehicle engines

**Order number:**  
BDM 300 1 687 023 489

Technical data	BDM 300
Ground (L x W x H)	227 x 184 x 48
Weight	approx. 0.8 kg
Supply voltage power supply unit	230 VAC/50 Hz through 12 VDC or OBD plug
Operating temperature range	5 °C to 45 °C

Designation	Measurement range
Speed on diesel engine	400 to 9,500 rpm
Speed on gasoline engine	400 to 8,000 rpm

# BEA PC software – Safely networked with AWN, BNet and AU Plus



BEA PC software: Identify the vehicle once only ...

... and use settings in all applications

## BEA PC software: For high-speed data exchange

The new BEA PC software is the all-round solution for workshops. The possibility for data networking and easy operation with intuitive menu navigation and highly automated testing procedures will in future make possible even faster and more profitable statutory exhaust-gas testing.

## Future-proof connectivity to other applications

The new test software by Bosch equips workshops for meeting new exhaust emission limits. By networking with AWN, BNet and AU Plus, Bosch workshops can take advantage of even more lucrative business opportunities.

## AWN networked test equipment by Bosch



ASA Network links the entire test equipment to all other workshop areas. All information from order acceptance and the workshop through to central storage is available at all times – on any workstation. When a new job order is created in the system, the exhaust-gas analyzer receives the job data automatically.

## Also networkable with BNet by Beissbarth

BEA is compatible with BNet, the network technology of Beissbarth GmbH



## AU Plus: Efficient, harmonized and fully integrated

The connected exhaust-gas analyzer informs the network manager about the progress of work. After the test is completed, the results are immediately available to the job order system for further analysis. The data is finally transferred to the AU Plus software and stored in the database.

## Benefits to the workshop

- ▶ Networking with AWN, BNet and AU Plus
- ▶ User friendly – Intuitive operation
- ▶ Fast – Highly automated testing procedures
- ▶ Simple – Automatic installation setup
- ▶ Future-proof – Adapts to regulatory changes
- ▶ Efficient – Linking of order acceptance and workshop
- ▶ Transparent – Vehicle and customer data at a glance

### Minimum requirements for PC or notebook

- CPU at least 2 GHz or 1.6 GHz Dual Core
- Operating system Windows XP or WIN 7
- At least 2 GB of RAM
- At least 160 GB of hard drive memory
- 2 free USB ports

### Adaptivity:

Software also runs on DCU 130 and KTS 670

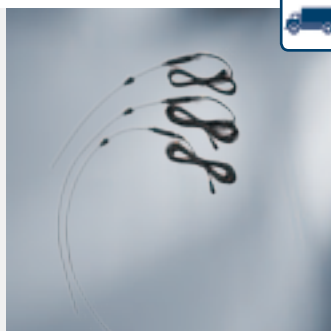
# Scope of delivery



BEA 060 application

Scope of supply	Part No.	BEA 030	BEA 055	BEA 060	BEA 070	Premium trolley	Medium trolley	PC, monitor, keyboard, mouse	Printer	KTS 540	KTS 515	BDM 300	Remote control	BEA PC software and vehicle exhaust emission analysis target data
BEA 950 S1	0 684 120 350	●	●		●	●		●	●	●		●	●	●
BEA 950 S2	0 684 120 352	●	●		●	●		●	●			●	●	●
BEA 950 S3	0 684 120 300	●	●		●		●		●		●			●
BEA 950 S4	0 684 120 301	●	●		●		●		●					●
BEA 550 Kombi	0 684 105 500	●		●	●						●			●
BEA 550 Kombi	0 684 105 502	●		●	●									●
BEA 550 Otto	0 684 105 277	●		●										●
BEA 550 Diesel	0 684 105 177	●			●									●

# Accessories for 4 / 5 gas analysis and temperature measurement



**Measuring probes for temperature measurement<sup>1</sup>**



**Infrared temperature sensor**  
Order number: 1 687 230 066



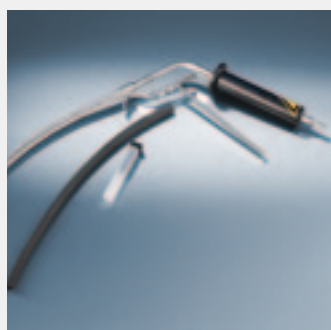
**Retrofit set NO**  
Order number: 1 687 001 972



**Silicone hose retrofit kit for 2-stroke engines**  
Order number: 1 687 001 283



**Gas filter, activated carbon**  
Order number: 1 687 432 014



**Exhaust gas probe for gasoline passenger cars (partial throttle up to 500 °C)**  
Order number: 1 680 790 052



**Probe seal for leak testing**  
Order number: 1 684 485 280



**Connection cable (2 m) for BEA 060 to cigarette lighter**  
Order Number: 1 684 465 584

## Probes for temperature measurement

Probe	Cable length	Probe length	Remarks
1 687 230 036	300 cm	90 cm	Passenger cars
1 687 230 042	600 cm	90 cm	Passenger cars
1 687 230 045	600 cm	150 cm	Commercial vehicles
1 687 230 051	1,000 cm	150 cm	Commercial vehicles, buses
1 687 230 050	600 cm	210 cm	Commercial vehicles, buses

# Accessories

## for smoke-opacity testing



**Passenger car full throttle exhaust gas probe for BEA 070**  
(measurements on engine power)  
Order number: 1 680 790 046



**Comm. veh. extraction probe for BEA 070**  
Order number: 1 680 790 041



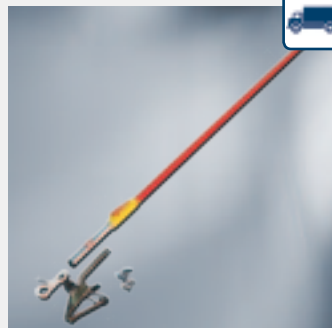
**Extraction hose (BEA 070) for comm. veh. extraction probe (1m)**  
Order number: 1 680 712 195



**Extraction hose (BEA 070) for truck extraction probe (3.5m)**  
Order number: 1 680 712 201



**Heated extraction hose (BEA 070) for truck probe (5m)**  
Order number: 1 685 510 232



**Clamping fixture with telescopic rod for BEA 070 (for trucks with high exhaust)**  
Order number: 1 688 040 258



**Spiral hose (1,5 m) for connecting the BEA 070 to the exhaust gas extraction system**  
Order number: 1 680 707 118



**Battery retrofit kit for BEA 070**  
Order number: 1 687 001 626



**Charger for BEA 070 battery**  
Order number: 1 687 023 619



**Diesel upgrade kit for BEA 550 Otto to BEA 550 Kombi**  
Order number: 1 687 001 976

# Accessories for professional emission analysis and OBD



**KTS 515 – OBD module**  
Order number: 0 684 400 515



**KTS 540 – ECU diagnostics with 1-channel multimeter**  
Order number: 0 684 400 540



**KTS 570 – ECU diagnostics with 2-channel multimeter/2-channel oscilloscope**  
Order number: 0 684 400 570



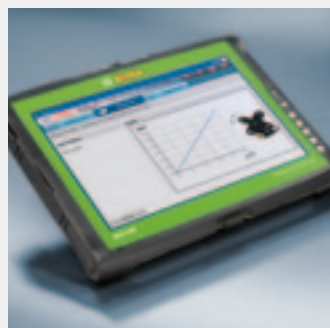
**OBD adapter box with OBD connector**  
Order number: 1 684 462 514



**OBD diagnostic cable, 5m**  
Order number: 1 684 465 567



**Wall mount for BEA 060 or BEA 070**  
Order number: 1 687 001 973



**DCU 130**  
Order number: 0 684 400 130



**Charger for DCU 130**  
Order number: 1 687 023 591



**Remote control**  
Order number: 1 687 201 985



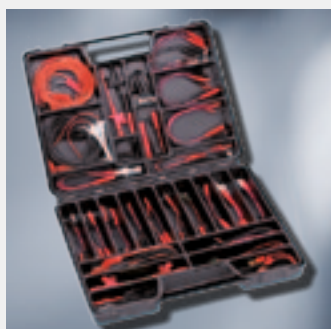
**BDM 300**  
Order number: 1 687 023 489



**Connecting cable to BDM 300 and to BEA 030**  
Order number: 1 684 463 810



**Trolley for BEA 550**  
Order number: 1 688 003 255



**Probe kit**  
Order number: 1 687 011 208