

BEA Range: Data and Facts

The right to make changes of a technical nature and to alter the range on offer is reserved.

Part numbers		
BEA150 Diesel Emissions Analyser	0684 105 161	
BEA250 Petrol Emissions Analyser	0684 105 261	
BEA350 Petrol and Diesel Analyser	0684 105 361	

Delivery Specification			
Bosch Emissions Analyser Suitable for performing exhaust emission tests on	BEA150 diesel engines	BEA250 petrol engines	BEA350 diesel & petrol engines
Components			
Operating and display unit	✓	✓	✓
Trolley	✓	✓	✓
UK Keyboard	✓	✓	✓
Software MOT compliant	✓	✓	✓
Oil temperature sensor	✓	✓	✓
Connecting cable B+/B-	✓	✓	✓
Infra Red Remote Control	✓	✓	✓
Diesel Smoke Meter including hose	✓		✓
4 gas Petrol Emission Analyser including hose		✓	✓

Special Accessories	
RTM430 retrofit kit for BEA250	1687 001 502
BEA050 retrofit kit for BEA150	1687 001 506
NO retrofit kit	1687 001 504
Recording paper for printer (5 rolls)	1681 420 028
EOBD hardware kit	1687 001 571
Stroboscope	1687 022 767
Sensor holder for Stroboscope, OBD adapter cable, etc	1681 335 104
Connecting cable for TD/TN, Terminal 1 pick up	1684 460 196
6mm Diesel clip-on pulse generator	1687 224 950
5m Connecting cable for pulse generator	1687 463 430
Inductive clip-on trigger sensor	1687 224 957
Truck sampling probe for RTM	1680 790 041
3.5m sampling hose for truck probe	1680 712 201
Tool shelf for trolley	1685 438 142

Measuring range, Accuracy		
4 gas Petrol Emission Analyser		
Components	Measuring range	Resolution
CO	0.000 – 10.00 %vol	0.001 %vol
CO ₂	0.00 – 18.00 %vol	0.01 %vol
HC	0 – 9999 ppm vol	1 ppm vol
O ₂	0.00 – 22.00 %vol	0.01 %vol
λ	0.500 – 9.999	0.001
NO	0 – 5000 ppm vol	<= 1 ppm vol
Diesel Smoke Meter		
Measuring variable	Measuring range	Resolution
Degree of opacity	0 – 100 %	0.1 %
Absorption coefficient k	0 – 9.99 min-1	0.01 min-1
Oil temperature Sensor		
Sensor	Measuring range	Resolution
Temperature	-20 – +150 °C	0.16 °C
Engine speed Sensor		
Sensor	Measuring range	Resolution
BDM (B+/B-)	600 – 6000 min-1	10 min-1

Regulations and Standards	
International:	OIML-R99 Class 0
EG:	CE conformity
UK MOT conformity:	Conforms to 1996 Exhaust Gas Analyser specifications and 2001 Diesel Smoke Meter specifications. Fully approved for all A and B class diesel engined vehicles

Technical Data	
Dimensions:	for all BEA variants with trolley (W x H x D in mm) 750x1350x700 Operating and control unit (W x H x D in mm) 470x260x480
Weight:	BEA 350 (incl. trolley) approx. 67 kg BEA 250 (incl. trolley) approx. 60 kg BEA 150 (incl. trolley) approx. 63 kg RTM 430 approx. 7 kg
Protection classes:	Operating and control unit IP 30 RTM 430 smoke-opacity tester module IP 33
Accuracy range:	+ 5 °C – +40 °C
Operating range:	+ 5 °C – +45 °C
Storage temperature:	-25 °C – +60 °C
Supply voltage:	230 V, 50 Hz



**Fully approved for MOT use for Petrol and Diesel emissions testing.
Fully Compatible for swipe card technology.**

- Measuring Accuracy to OIML R99, class 0
- Simple step by step operation
- Brilliant colour TFT screen
- Bosch engine speed measuring technology via battery terminals
- NO measurement capable through optional accessory
- Petrol and Diesel versions easily upgradeable to a combination unit
- Fast thermal scroll printout
- Updateable database through disc drive
- Network capable through AWN

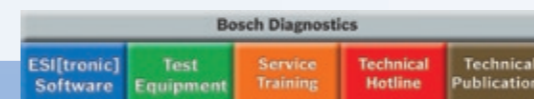
BEA Emission Analysers for a clean environment

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BEA Emission Analysers: for a clean environment

- Brilliant colour TFT screen – exceptionally bright display even in bright conditions.
- Bosch operator guidance, simple step by step guidance displayed in a concise, clearly arranged format. Eg. Test values displayed using bar charts.
- Simple operation with very few control keys, standard PC keyboard and an Infra-red remote control.
- Fast printout of test results with in-built thermal scroll printer.
- Bosch engine speed measurement technology using battery clamps.
- No.1 ignition lead sensor, Diesel clamp sensor available as an optional accessory.
- All models are equipped with a disc drive installed, for fast programme / data updates which can be performed by the user.
- Network capable through AWN (XML format)



- 1 Infra-red remote control
- 2 OS9 processor with BEA050 4 gas measuring bench.
- 3 Disc drive and printer cover
- 4 Fold down keyboard drawer
- 5 RTM430 diesel smoke meter
- 6 BEA trolley
- 7 Sensor holder
- 8 Colour TFT display screen and control keys



Disc drive for fast and simple data updates and fast thermal scroll printer



Brilliant colour TFT display screen



Ergonomically designed sensor holder



Innovative Bosch engine speed sensor technology



Fast and simple maintenance through easy access to filters at rear of unit.

BEA250

4 gas Petrol Emissions Analyser.

The 5 component exhaust emission analyser gives exceptional performance through;

- Outstanding measuring accuracy in accordance with OIML R99 class 0.
- Fast and simple maintenance through easy access to filters.
- Long term stability due to infra-red measuring technology with exhaust emissions detector as the receiver.
- OS9 processor provides very fast readiness time when switched on.
- NO measurement capable through optional accessory.
- Easily upgradeable to the BEA 350 combination petrol and diesel emissions analyser.

BEA350

Combination Petrol and Diesel Emissions Analyser.

A complete exhaust emissions tester for both petrol and diesel engines for cars and commercial vehicles in 1 compact unit. Fully compliant for all MOT testing and is swipe card ready.

BEA150

Diesel Emissions Analyser for cars and commercial vehicles.

Utilising the RTM430: The renowned National Standard reference smoke meter is mounted on the rear of the BEA trolley for space saving convenience. It gives exceptional performance through;

- Very fast measurement response time.
- Outstanding service life of measuring cells.
- Optimum flow technology of the smoke opacimeter.
- Fast and simple maintenance through magnetic locks.
- Designed with state-of-the-art simulation programs.
- Easily upgradeable to the BEA 350 combination petrol and diesel emissions analyser.

