



# BRIGON 505 / 505+

**approved for compulsory inspections of oil and gas heating appliances according to EN 50379-1, EN 50379-2 and VDI 4206-1 for O<sub>2</sub>, CO, NO, temperature, pressure measurement. BRIGON 505+ is also certified for solid fuel measurement according to TÜV By RgG 300.**

**BRIGON 505/505+ portable combustion analyser incl. CO, O<sub>2</sub>, pressure/draught and temperature sensors, infrared interface to printer, Bluetooth interface (option). BRIGON 505/505+ analyser is designed for service, maintenance and check-up of small heating appliances.**

Fuel types: Light oil, bio-oil, natural gas, pellets (wood), L.P.G., coke gas  
Calculation of: CO<sub>undiluted</sub>, NO<sub>undiluted</sub>, CO<sub>2</sub>, lambda (excess air), stack loss q<sub>A</sub>, combustion efficiency Eta, CO/CO<sub>2</sub> ratio

## Technical details

<b>Flue gas temperature</b>	
Measuring range:	- 50 °C ... + 600 °C type K, 0...400 °C TÜV approved
Resolution:	0,1 °C
Accuracy:	≤ ± 2 °C (up to 125 °C), ≤ ± 3 °C (125...250 °C), ≤ ± 4 °C (from 250 °C)
<b>Ambient air temperature</b>	
Measuring range:	0 °C ... + 100 °C type K, 0...80 °C TÜV approved
Resolution:	0,1 °C
Accuracy:	≤ ± 1 °C
<b>O<sub>2</sub> concentration</b>	
Measuring range:	0...21,0 Vol% TÜV approved
Resolution:	0,1 Vol%
Accuracy:	≤ ± 0,3 Vol%
<b>CO concentration BRIGON 505</b>	
Measuring range:	0 ... 4.000 ppm, short-time overstressing up to 10.000 ppm 0 ... 2.000 ppm TÜV approved
Resolution:	1 ppm
Accuracy:	≤ ± 20 ppm (up to 400 ppm), ≤ ± 5 % from reading (over 400 ppm)
<b>CO concentration BRIGON 505+</b>	
Measuring range:	0 ... 11.500 ppm, short-time overstressing up to 20.000 ppm 0 ... 8.000 ppm TÜV approved
Resolution:	1 ppm
Accuracy:	≤ ± 20 ppm (up to 400 ppm), ≤ ± 5 % from reading (over 400 ppm up to 2.000ppm), ≤ ± 10 % from reading (over 2.000ppm)
<b>NO concentration (optional)</b>	
Measuring range:	0 ... 600 ppm TÜV approved
Resolution:	1 ppm
Accuracy:	≤ ± 5 ppm (up to 100 ppm), ≤ ± 5 % from reading (over 100 ppm)
<b>Pressure and draught measurement</b>	
Measuring range:	- 160 mbar ... + 160 mbar TÜV approved
Resolution:	0,01 mbar
Accuracy:	≤ ± 3 %
<b>Warranty:</b>	<b>12 months</b> (this warranty does not cover misuse, abuse or use outside its specification)
<b>Fixed price recertification and service</b>	
after	<b>B505</b> <b>B505+</b>
12 months:	€ 150 (9211)    € 175 (9216)
24 months:	€ 150 (9212)    € 175 (9217)
36 months:	€ 150 (9213)    € 175 (9218)
48 months:	€ 150 (9214)    € 175 (9219)
	(Item no in brackets)
	Fixed price service includes check up and maintenance, O <sub>2</sub> and CO sensors, re-calibration of all measuring channels on TÜV approved test stand, cleaning and software upgrade as well as one year warranty extension.



**BRIGON 505 / 505+**  
**Portable combustion analyser**

Item no.	<b>BRIGON 505 / 505+ combustion analyser sets</b>	
5405	<b>BRIGON 505 basic set</b>	
5407	<b>BRIGON 505+ basic set</b> incl. analyser, combustion probe with thermocouple 250 mm and hose, steel cone, ambient air probe Mini, rechargeable batteries, power adapter, soft case with magnet	
5420	<b>BRIGON 505 set in ABS carrying case</b>	
5421	<b>BRIGON 505 set in Sortimo L-BOXX</b>	
5425	<b>BRIGON 505+ set in ABS carrying case</b>	
5426	<b>BRIGON 505+ set in Sortimo L-BOXX</b> incl. analyser, combustion probe with thermocouple 250 mm and hose, steel cone, ambient air probe Mini and 150 mm, rubber cones set, maintenance set, rechargeable batteries, soft case with magnet, power adapter, thermoprinter BIRD, pressure flexibles (2 pieces) and carrying case	
5422	<b>BRIGON 505 Set in XL-carrying case for chimney sweepers</b>	
5427	<b>BRIGON 505+ Set in XL-carrying case for chimney sweepers</b> incl. analyser, hose with grip and bayonet connector, combustion probe 250 mm, multihole probe, steel cone, ambient air probe Mini and 150 mm, rubber cones set, maintenance set, rechargeable batteries, soft case with magnet, adapter, combustion probe for balanced flues and XL-carrying case	
5461	<b>BRIGON 505 surcharge for NO sensor</b>	
5462	<b>BRIGON 505+ surcharge for NO sensor</b>	
Item no.	<b>BRIGON accessories and spares</b>	
5350	Ambient air probe Mini	
5351	Ambient air probe 150 mm with hose 1,5 m	
5352	Ambient air probe 300 mm with hose 1,5 m	
4450	Teflon cone for ambient air probe 3 mm Ø	
4457	Rubber cone set 9-24 mm for ambient air probe 3 mm Ø	
5031	Magnet-holder for ambient air probe 3 mm Ø	
5320	Combustion probe 250mm with thermocouple and hose 2m	
5321	Hose 2m with grip and bayonet connector	
5331	Combustion probe 250 mm with thermocouple and bayonet connector	
5347	Flexible combustion probe 400 mm with thermocouple, bayonet connector and cone	
5340	Multihole combustion probe with hose for pipes Ø 60-170 mm	
5341	Multihole combustion probe with bayonet connector for pipes Ø 60-170 mm	
5345	Multihole combustion probe for balanced flues	
4458	Rubber cones set Ø 11-24 mm for multihole combustion probe for balanced flues	
5325	Pressure flexibles (2 pieces), length 1m	
5330	Probe for measuring of chimney draught, length 1,5m	
3039	Tightness tester	
3324	Particle filter	pack of 2
5327	Maintenance set for <b>BRIGON 500</b>	
5385	Rechargeable batteries Ni / MH	pack of 4
5380	Power adapter 230 V	
5379	Car charger 12 V	
5370	Bluetooth interface incl. fitting	
5730	Thermoprinter BIRD incl. batteries and thermopaper	
5735	Paper rolls for thermoprinter BIRD	pack of 5
6130	Adhesive transparent plastic bags for printouts	pack of 10
6266	Aluminium adhesive seals for test holes	pack of 100
6337	Sealing clamps, aluminium with spring	pack of 100
5334	Sortimo L-BOXX for <b>BRIGON 505</b> (442 x 357 x 151 mm)	
5338	ABS carrying case for <b>BRIGON 505</b> (530 x 420 x 100 mm)	
5339	XL-carrying case for <b>BRIGON 505</b> (530 x 420 x 150 mm)	

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