JPES Portable Gas Sampling Kit





- Mobile extractive gas analysis
- · Emission and process monitoring
- Mobile representative gas sampling in dust and humidity containing processes
- Removal of dust from the sample gas stream
- Condensate free transport from the sampling point to the conditioning system or analyzer
- · Especially designed for:
 - Stack testers
 - Authorities (QAL 2)
 - Mobile backup CEMS

BENEFITS

- Lightweight and compact
- · Quick and very easy start up
- · Very easy operation
- Quick and very easy change of the filter element without tools
- Complete ready for use set, no additional equipment necessary
- No separate temperature controller necessary
- Only one power connection necessary (also with heated sampling tube JBER)
- No loose cables

FEATURES

- Robust, compact transport case with all necessary parts for mobile gas sampling: gas sampling probe, heated sample line, sampling tubes, filter elements, calibration gas connection, mounting chains, ...
- Compact gas sampling probe with operation and temperature status LEDs
- Homogeneous heating to 180 °C without cold spots
- Gas sampling probe with self limiting
 PTC heating element
- Calibration gas connection at the gas sampling probe
- Heated sample line JHSo with integrated temperature controller and operation status LED
- All electric connection cables are integrated in the heated sample line
- Exclusively Quick-On connectors for all gas connections
- Flexible, lightweight and robust heated sample line
- Comprehensive list of options for various applications





Gas Sampling Probes

Heated Sample Lines

> Sample Gas Coolers

> Condensate Treatment

Accessories

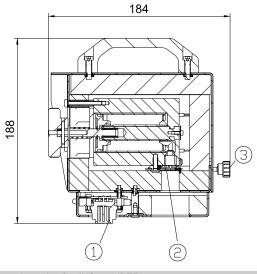
Gas Conditioning Systems

> Sample Gas Converters

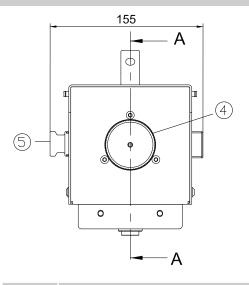
TECHNICAL DATA

Model	JPES
Description	portable gas sampling probe
	Operation
Operating temperature	180 °C at 20 °C ambient temperature, max. 200 °C at 55 °C ambient temperature
Flow / Pressure Drop	max. 200 NI/hr / < 10 mbara
Ambient temperature	−20 °C to +55 °C
Operating pressure	max. 1,5 bara
Heat-up time	< 15 min
	Construction
Dimensions over all (W x H x D)	155 x 188 x 184 mm
Filter elements	PTFE 2 μ m, micro glass fibre 0,1 μ m, stainless steel mesh 1 μ m
Weight	approx. 3,1 kg
Housing / Colour	sheet steel, powder coated RAL 1026 / 9017
Gas wetted materials (without filter element)	SS316Ti, Viton®
Heating element	PTC self limiting
Mounting sampling point	Cone shaped universal sampling adapter 20 to 60 mm (No. 16) and mounting chains (No. 15)
Mounting position	5° to 15° incline (recommended)
Connection sampling tube / Calibration gas / Heated sample line	Quick-On
Protection class in mounting position	IP42 (EN 60529)
Aprovals / Signs	CE
	Electrics
Power supply	115 VAC or 230 VAC 50/60 Hz
Inrush current	3 A
Power consumption	approx. 160 W
Status contact temperature	volt free contact, min. 24 VDAC / 50 mA, max. 230 VAC / 5 A cosφ 0,95 threshold level 150 °C
Operating-LED / Status-LED	operation: yellow / temperature < 150 °C: red, temperature > 150 °C: green
On time	100 %
Electrical connection	7-pole plug, power supply via heated sample line

DIMENSIONS



1	7-pole socket for JHSo or JBER
2	Quick-On connection for JHSo
3	Release Quick-On connection



- Rotary knob filter lock 4 5
- Blind plug calibration gas connection

Dimensions in mm

TECHNICAL DATA

Model	JHSo
Description	heated sample line
	Operation
Operating temperature	180 °C
Ambient temperature	-40 °C to +60 °C
Operating pressure	max. 1,5 bara
Heat-up time	< 15 min
	Construction
Outer diameter	35 mm
Minimal bending radius	50 mm
Inner core	PTFE, DN 4/6 mm
External protection jacket	PA-braid, black
Temperature control	integrated temperature controller with operation status LED, directly on hard cap end
Thermal insulation	close pore, waterproof silicone hose, thermally stabilised
End configuration	hard caps
Connection	to sampling probe side: Quick-On, to controller side: stainless steel stub 6 mm
Sample line length with integrated controller	@ 230 VAC 3 / 5 / 7 / 10 m; @ 115 VAC 3 / 5 m
Sample line length without controller	@ 230 VAC 15 / 20 m; @115 VAC 7 / 10 / 15 / 20 m
Approvals / Signs	CE
Electrics	
Power supply	115 VAC or 230 VAC, 50/60 Hz
Fusing	external, on site
Power consumption	approx. 100 W/m
Power cord	CEE7/7 or country specific plug, length 2 m
Signal cord sampling probe temperature	2 x 0,75 mm ² , open ends
On time	100 %
Electrical connection at JPES	7-pole connector

DIMENSIONS

I = 3 / 5 / 7 m (3) 4) (5) 0 ۱D 0 (1)Stainless steel stub 6 mm 0,3 m cord with 7-pole connector to sampling probe JPES resp. 1 4 to heated sampling tube JBER 2 Integrated temperature controller 5

3 Power cord and signal cord for sampling probe temperature Quick-On sampling probe connection

Dimensions in mm

TECHNICAL DATA

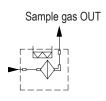
Model	JBER				
Description	heated sampling pipe				
Operation					
Operating temperature	180 °C				
Sample gas temperature	max. 250 °C				
Ambient temperature	-40 °C to +60 °C				
Operating pressure	max. 1,5 bara				
Heat-up time	< 15 min				
	Construction				
Outer diameter	25 mm				
Nominal width inner pipe	4 mm				
Temperature control	integrated temperature controller				
Gas wetted materials	SS316				
Protection class	IP 54				
Connection pre-filter	R3/8 i				
Tube length	500 / 750 / 1000 / 1500 / 2000 / 2500 mm				
Total length	610 / 860 / 1110 / 1610 / 2110 / 2610 mm				
Weight	1,1 / 1,2 / 1,4 / 1,8 / 3,0 / 3,6 kg				
Approvals / Signs	CE				
	Electrics				
Power supply	115 VAC or 230 VAC, 50/60 Hz				
Fusing	external, on site				
Power consumption	approx. 530 W				
On time	100 %				
Electrical connection at JHSo	Power supply via 7-pole connector				

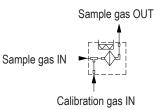
DIMENSIONS

	€ 500 / 750 √ ④	/ 1000	/ 1500 / 2	2000 / 2500 mm	5
1	Quick-On probe connection		4	0,5 m cord with 7-pole connector to probe JPES	
2	Integrated temperature controller		4	0,5 m cord with 7-pole connector to probe JPES	
3	0,3 m cord with 7-pole connector to heated sample line JHSo		5	Thread connector R3/8"i for pre-filter or unheated tube extension	

Dimensions in mm

GAS FLOW DIAGRAM





ORDER CODE

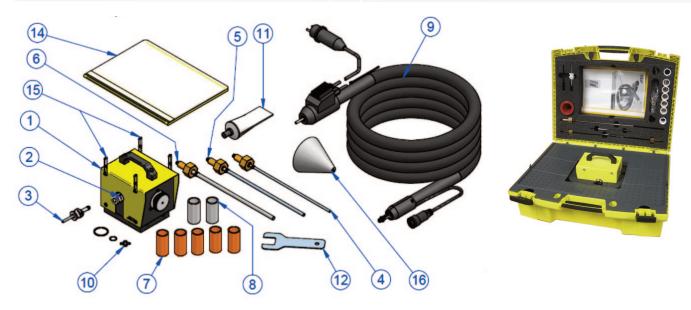
Order code	Description
34.00100	JPES portable gas sampling probe, 115 VAC 50/60 Hz
34.00200	JPES portable gas sampling probe, 230 VAC 50/60 Hz
34.00150	JPES starter kit with portable gas sampling probe and 3 m heated sample line, 115 VAC 50/60 Hz
34.00250	JPES starter kit with portable gas sampling probe and 3 m heated sample line, 230 VAC 50/60 Hz
34.00255	JPES starter kit with portable gas sampling probe and 5 m heated sample line, 230 VAC 50/60 Hz
34.00180	JPES premium kit with portable gas sampling probe and 5 m heated sample line, 115 VAC 50/60 Hz
34.00280	JPES premium kit with portable gas sampling probe and 5 m heated sample line, 230 VAC 50/60 Hz

JPES starter kit - scope of delivery

Sample gas IN

JPES premium kit - scope of delivery

· · ·		
1 x portable gas sampling probe JPES	1	1 x portable gas sampling probe JPES
1 x calibration gas blind plug	2	1 x calibration gas blind plug
	3	1 x calibration gas connection (with fitting on request)
	4	1 x sampling pipe Ø 6 mm, length 300 mm
	5	1 x sampling pipe Ø 8 mm, length 300 mm
1 x sampling pipe Ø 10 mm, length 300 mm	6	1 x sampling pipe Ø 10 mm, length 300 mm
1 x filter element micro glass fibre	7	5 x filter element micro glass fibre
	8	2 x filter element PTFE
1 x heated sample line, length 3 m	9	1 x heated sample line, length 5 m
	10	1 x spare o-ring set
	11	1 x tube PTFE-Paste 113,4 g
1 x disassembling aid	12	1 x disassembling aid
1 x carrying case	13	1 x carrying case
1 x operating manual	14	1 x operating manual
1 x mounting chains (2 pcs, 1 m each)	15	1 x mounting chains (2 pcs, 1 m each)
1 x universal-sampling adapter 20 to 60 mm	16	1 x universal-sampling adapter 20 to 60 mm



ORDER CODE

JHSo heated sample line Order code Description

Order code	Description
34.00401	JHSo heated sample line 230 VAC 50/60 Hz, length 3 m, inner core PTFE DN4/6 mm with integrated temperature controller
34.00402	JHSo heated sample line 230 VAC 50/60 Hz, length 5 m, inner core PTFE DN4/6 mm with integrated temperature controller
34.00403	JHSo heated sample line 230 VAC 50/60 Hz, length 7 m, inner core PTFE DN4/6 mm with integrated temperature controller
34.00404	JHSo heated sample line 230 VAC 50/60 Hz, length 10 m, inner core PTFE DN4/6 mm with integrated temperature controller
34.00405	JHSo heated sample line 230 VAC 50/60 Hz, length 15 m, inner core PTFE DN4/6 mm without temperature controller
34.00406	JHSo heated sample line 230 VAC 50/60 Hz, length 20 m, inner core PTFE DN4/6 mm without temperature controller
34.00411	JHSo heated sample line 115 VAC 50/60 Hz, length 3 m, inner core PTFE DN4/6 mm with integrated temperature controller
34.00412	JHSo heated sample line 115 VAC 50/60 Hz, length 5 m, inner core PTFE DN4/6 mm with integrated temperature controller
34.00413	JHSo heated sample line 115 VAC 50/60 Hz, length 7 m, inner core PTFE DN4/6 mm without temperature controller
34.00414	JHSo heated sample line 115 VAC 50/60 Hz, length 10 m, inner core PTFE DN4/6 mm without temperature controller
34.00415	JHSo heated sample line 115 VAC 50/60 Hz, length 15 m, inner core PTFE DN4/6 mm without temperature controller
34.00416	JHSo heated sample line 115 VAC 50/60 Hz, length 20 m, inner core PTFE DN4/6 mm without temperature controller
34.00550	Adapter for third party heated sample line to Quick-On connection

JBER heated sampling pipe with integrated temperature controller

Order code	Description
34.00605	JBER heated sampling pipe with Quick-On connection, 230 VAC 50/60 Hz, length 500 mm
34.00607	JBER heated sampling pipe with Quick-On connection, 230 VAC 50/60 Hz, length 750 mm
34.00610	JBER heated sampling pipe with Quick-On connection, 230 VAC 50/60 Hz, length 1000 mm
34.00615	JBER heated sampling pipe with Quick-On connection, 230 VAC 50/60 Hz, length 1500 mm
34.00620	JBER heated sampling pipe with Quick-On connection, 230 VAC 50/60 Hz, length 2000 mm
34.00625	JBER heated sampling pipe with Quick-On connection, 230 VAC 50/60 Hz, length 2500 mm
34.00705	JBER heated sampling pipe with Quick-On connection, 115 VAC 50/60 Hz, length 500 mm
34.00707	JBER heated sampling pipe with Quick-On connection, 115 VAC 50/60 Hz, length 750 mm
34.00710	JBER heated sampling pipe with Quick-On connection, 115 VAC 50/60 Hz, length 1000 mm
34.00715	JBER heated sampling pipe with Quick-On connection, 115 VAC 50/60 Hz, length 1500 mm
34.00720	JBER heated sampling pipe with Quick-On connection, 115 VAC 50/60 Hz, length 2000 mm
34.00725	JBER heated sampling pipe with Quick-On connection, 115 VAC 50/60 Hz, length 2500 mm
34.90020	Pre-filter for heated sampling pipe JBER
34.00910	Positioning flange for grid measurements with JBER, SS316, DN65 PN6, EN 1092-1 Form A
34.00905	Positioning flange for grid measurements with JBER, SS316, 2" ANSI 150lbs, ASME B16.5
34.00900	Positioning flange for grid measurements with JBER, SS316, 3" ANSI 150lbs, ASME B16.5

Stainless steel sampling pipes up to max. 600 °C Order code Description

Order code	Description	Order code	Description
34.00311	DN10/12 with Quick-On connection, SS316Ti, length 300 mm	34.00306	DN6/8 with Quick-On connection, SS316Ti, length 1000 mm
34.00312	DN10/12 with Quick-On connection, SS316Ti, length 500 mm	34.00301	DN4/6 with Quick-On connection, SS316Ti, length 300 mm
34.00313	DN10/12 with Quick-On connection, SS316Ti, length 1000 mm	34.00302	DN4/6 with Quick-On connection, SS316Ti, length 500 mm
34.00310	DN10/12 with Quick-On connection, SS316Ti, length 2000 mm	34.00303	DN4/6 with Quick-On connection, SS316Ti, length 1000 mm
34.00307	DN8/10 with Quick-On connection, SS316Ti, length 300 mm		
34.00308	DN8/10 with Quick-On connection, SS316Ti, length 500 mm		
34.00309	DN8/10 with Quick-On connection, SS316Ti, length 1000 mm		
34.00304	DN6/8 with Quick-On connection, SS316Ti, length 300 mm		
34.00305	DN6/8 with Quick-On connection, SS316Ti, length 500 mm		

Gas Sampling Probes

Heated Sample Lines

Sample Gas Coolers







Gas Conditioning Systems

NOx Converter



and solutions for

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