Innovation

in Gas Analysis

JPES Portable Gas Sampling Probe with JHSo Heated Sample Line





JCT

Analysentechnik GmbH

Gas Sampling Probes

Heated Sample Lines

Sample Gas Coolers

Condensate Treatment

Accessories

Gas Conditioning Systems

Sample Gas Converters

APPLICATION

- · For mobile extractive gas analysis
- · For emission and process monitoring
- For mobile representative gas sampling in dust and humidity containing processes
- For removal of dust from the sample gas stream
- For condensate free transport from the sampling point to the conditioning system or the analyser
- · Especially designed for:
 - Stack testers
 - Authorities (QAL 2)
 - mobile back-up CÉMS's

BENEFITS

- · Light weight and compact
- · Quick and very easy start up
- · Very easy operation
- Very easy and quick 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 LED's
- 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, light weight and robust heated sample line
- Comprehensive list of options for various applications



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TECHNICAL DATA

portable gas sampling probe

Model JPES

Description

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+55°C			
Operating pressure	max. 1,5 bara			
Heat-up time	< 15 min			

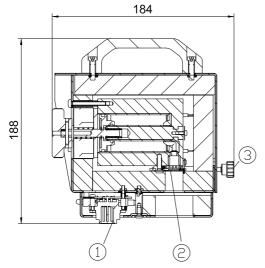
Construction

Constitution		
Dimensions over all (W x H x D)	155 x 188 x 184 mm	
Filter elements	PTFE 2 μm, micro glass fibre 0,1 μm, stainless steel mesh 1 μm	
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 2060 mm (No. 16) and mounting chains (No. 15)	
Mounting position	5°15° incline (recommended)	
Connection sampling tube / calibration gas / heated sample line	Quick-On	
Protection class	IP22 (EN 60529)	
Aprovals / signs	CE	

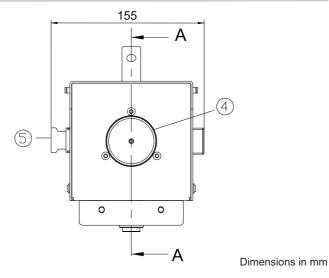
Electrics

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



4	Rotary knob filter lock
5	Blind plug calibration gas connection

TECHNICAL DATA

Model JHSo

Model	31130			
Description	heated sample line			
Operation				
Operating temperature	180°C			
Ambient temperature	-40°C+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	3/5/7 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

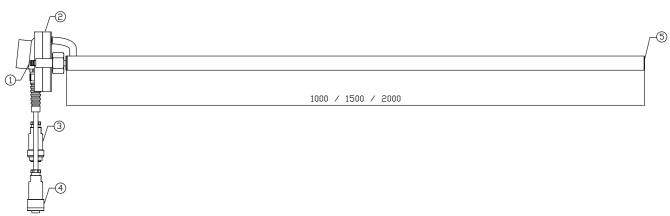
1	Stainless steel stub 6 mm		4	0,3 m cord with 7-pole connector to sampling probe JPES resp. to heated sampling tube JBER
2	Integrated temperature controller			
3	Power cord and signal cord for sampling probe temperature		5	Quick-On sampling probe connection

TECHNICAL DATA

Model JBER

Description	escription heated sampling pipe		
Operation			
Operating temperature	180°C		
Sample gas temperature	max. 250°C		
Ambient temperature	-40°C+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	R 3/8" i		
Tube length	1000 / 1500 / 2000 mm		
Total length	1110 / 1610 / 2110 mm		
Weight	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	Ppwer supply via 7-pole connector		

DIMENSIONS



Dimensions in mm

1	Quick-On probe connection	1	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 31 E3
3	0,3 m cord with 7-pole connector to heated sample line JHSo $$	5	Thread connector R 3/8" i for pre-filter or unheated tube extension

GAS FLOW DIAGRAMS



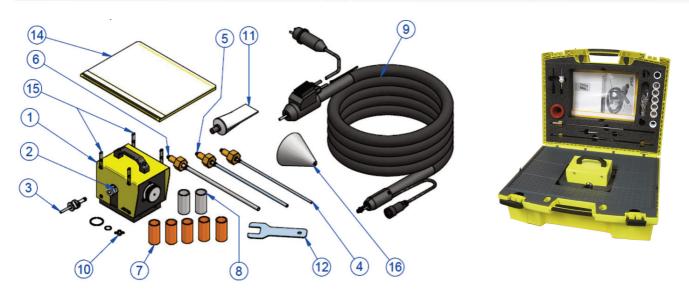
ORDER CODES

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
34.00180	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

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 2060 mm	16	1 x universal-sampling adapter 2060 mm



ORDER CODES

JHSo heated sample line with integrated temperature controller

Order code	Description
34.00401	JHSo heated sample line 230 VAC 50/60 Hz, length 3 m, inner core PTFE DN4/6 mm
34.00402	JHSo heated sample line 230 VAC 50/60 Hz, length 5 m, inner core PTFE DN4/6 mm
34.00403	JHSo heated sample line 230 VAC 50/60 Hz, length 7 m, inner core PTFE DN4/6 mm
34.00411	JHSo heated sample line 115 VAC 50/60 Hz, length 3 m, inner core PTFE DN4/6 mm
34.00412	JHSo heated sample line 230 VAC 50/60 Hz, length 5 m, inner core PTFE DN4/6 mm
34.00550	Adapter for third party heated sample line to Quick-On connection





JBER heated sampling pipe with integrated temperature controller

Order code	Description
34.00610	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
34.00710	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
34.00910	Positioning flange for grid measurements with JBER, SS316, DN65 PN6 DIN 2573
34.00905	Positioning flange for grid measurements with JBER, SS316, 2"
34.00900	Positioning flange for grid measurements with JBER, SS316, 3"





Stainless steel sampling pipes up to max. 600°C

Order code	Description
34.00307	Stainless steel sampling pipe DN8/10 with Quick-On connection, SS316, length 300 mm
34.00308	Stainless steel sampling pipe DN8/10 with Quick-On connection, SS316, length 500 mm
34.00309	Stainless steel sampling pipe DN8/10 with Quick-On connection, SS316, length 1000 mm
34.00304	Stainless steel sampling pipe DN6/8 with Quick-On connection, SS316, length 300 mm
34.00305	Stainless steel sampling pipe DN6/8 with Quick-On connection, SS316, length 500 mm
34.00306	Stainless steel sampling pipe DN6/8 with Quick-On connection, SS316, length 1000 mm
34.00301	Stainless steel sampling pipe DN4/6 with Quick-On connection, SS316, length 300 mm
34.00302	Stainless steel sampling pipe DN4/6 with Quick-On connection, SS316, length 500 mm
34.00303	Stainless steel sampling pipe DN4/6 with Quick-On connection, SS316, length 1000 mm

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