



	arges – vane wheel flow sensors FA	
calibration flat rate not in Type	Description	Article No.
FA	Visual inspection, cleaning, performance check, assessment of wear parts, minor repair work	PRÜ-FA
FAR	Visual inspection, cleaning, performance check, assessment of wear parts, minor repair work	PRÜ-FAR
FT	Visual inspection, cleaning, performance check of velocity and temperature sensors, assessment of wear parts, minor repair work	PRÜ-FT
FA Di	Visual inspection, cleaning, performance check, assessment of wear parts, minor repair work	PRÜ-FADI

Example of possible article combination see page 7

Flat rate inspection cha	rges – vortex flow sensors VA	
calibration flat rate not in	cluded	
Туре	Description	Article No.
VA	Visual inspection, cleaning, performance check, assessment of wear parts, minor repair work	PRÜ-VA
VAT	Visual inspection, cleaning, performance check of velocity and temperature sensors, assessment of wear parts, minor repair work	PRÜ-VAT
VA Di up to Di100	Visual inspection, cleaning, performance check, assessment of wear parts, minor repair work	PRÜ-VADI
VA Di greater Di100	Visual inspection, cleaning, performance check, assessment of wear parts, minor repair work	PRÜ-VADI2
VAR TwinPipe	Visual inspection, cleaning, performance check, assessment of wear parts, minor repair work	PRÜ-VAR
Flat rate inspection cha	rge – ultrasonic flow meter UA	
Туре	Description	Article No.
		Article No. PRÜ-SONIC
Type ExactSonic Flat rate inspection cha	Description Visual inspection, cleaning, performance check, assessment of wear parts rges – thermal flow sensors TA	
Type ExactSonic Flat rate inspection cha calibration flat rate not in	Description Visual inspection, cleaning, performance check, assessment of wear parts rges – thermal flow sensors TA cluded	PRÜ-SONIC
Type ExactSonic Flat rate inspection cha	Description Visual inspection, cleaning, performance check, assessment of wear parts rges – thermal flow sensors TA	
Type ExactSonic Flat rate inspection cha calibration flat rate not in Type	Description Visual inspection, cleaning, performance check, assessment of wear parts rges - thermal flow sensors TA cluded Description Visual inspection, cleaning, performance check, assessment of wear parts, minor	PRÜ-SONIC Article No.
Type ExactSonic Flat rate inspection cha calibration flat rate not in Type TA	Description Visual inspection, cleaning, performance check, assessment of wear parts rges - thermal flow sensors TA cluded Visual inspection, cleaning, performance check, assessment of wear parts, minor repair work Visual inspection, cleaning, performance check, assessment of wear parts, minor repair work Visual inspection, cleaning, performance check, assessment of wear parts, minor repair work	PRÜ-SONIC Article No. PRÜ-TA
Type ExactSonic Flat rate inspection cha calibration flat rate not in Type TA TA Di	Description Visual inspection, cleaning, performance check, assessment of wear parts rges - thermal flow sensors TA cluded Visual inspection, cleaning, performance check, assessment of wear parts, minor repair work Visual inspection, cleaning, performance check, assessment of wear parts, minor repair work Visual inspection, cleaning, performance check, assessment of wear parts, minor repair work	PRÜ-SONIC Article No. PRÜ-TA
Type ExactSonic Flat rate inspection cha calibration flat rate not in Type TA TA Di Flat rate inspection cha	Description Visual inspection, cleaning, performance check, assessment of wear parts rges - thermal flow sensors TA cluded Visual inspection, cleaning, performance check, assessment of wear parts, minor repair work Visual inspection, cleaning, performance check, assessment of wear parts, minor repair work Visual inspection, cleaning, performance check, assessment of wear parts, minor repair work rges - other sensors Visual inspection, cleaning, performance check, assessment of wear parts, minor repair work visual inspection, cleaning, performance check, assessment of wear parts, minor repair work visual inspection, cleaning, performance check visual inspection, cleaning, performance check	PRÜ-SONIC Article No. PRÜ-TA PRÜ-TADI Article No. PRÜ-TF
Type ExactSonic Flat rate inspection cha calibration flat rate not in Type TA TA Di Flat rate inspection cha Type	Description Visual inspection, cleaning, performance check, assessment of wear parts rges - thermal flow sensors TA cluded Visual inspection, cleaning, performance check, assessment of wear parts, minor repair work Visual inspection, cleaning, performance check, assessment of wear parts, minor repair work Visual inspection, cleaning, performance check, assessment of wear parts, minor repair work rges - other sensors Description	PRÜ-SONIC Article No. PRÜ-TA PRÜ-TADI Article No.

Calibration flat rates

for 6 standard calibration values. Inspection flat rate and calibration certificate not included. For sensors with evaluation unit, the calibration values are selected in the scaled range, provided that the set analog output does not correspond to the physical end value.

DAkkS velocity calibration – flow sensors

6 calibration values		
Range	Reference	Article No.
0.1 m/s bis 40 m/s	WK320, LDA	CV-40 DAKKS
0.1 m/s bis 70 m/s	WK320, LDA	CV-70 DAKKS
additional calibration values	per value	CV-X DAKKS

For the measurement uncertainty of the reference please refer to the calibration document U325. The calibration medium is air. Calibration is carried out at room temperature under atmospheric conditions.

ISO velocity calibration – flow sensors

Terminal value	Туре	Calibration values in m/s				Article No.		
1 m/s	FA*	0.5	0.6	0.7	0.8	0.9	1.0	CV-1ZS
1 m/s	ТА	0.25	0.35	0.5	0.6	0.75	1.0	CV-1TA
2 m/s	FA*	0.5	0.75	1.0	1.25	1.5	2.0	CV-2ZS
2 m/s	ТА	0.25	0.5	0.75	1.0	1.5	2.0	CV-2TA
3 m/s	TA, FA*	0.5	0.75	1.0	1.5	2.0	3.0	CV-3
20 m/s	TA, FA	1	2	5	10	15	20	CV-20
30 m/s	TA, FA, VA	1	2	5	10	20	30	CV-30
60 m/s	VA, VAT	1	4	8	16	32	60	CV-60
60 m/s	ТА	1	5	10	20	40	60	CV-60
60 m/s	FA	2	5	10	20	40	60	CV-60
120 m/s	ТА	2	5	10	40	80	120	CV-120
150 m/s	ТА	2	10	20	40	80	150	CV-150
180 m/s	ТА	2	10	20	60	100	180	CV-180
200 m/s	ТА	2	10	20	60	120	200	CV-200
additional calibration values				per	value			CV-X

For the measurement uncertainty of the reference please refer to the calibration document U325. The calibration medium is air. *applies to FA sensors with vane wheel set `md20' or `md3'. Calibration of FAR probes generally from one direction of flow.

DakkS flow rate calibratino – measuring tubes

6 calibration va	alues	S			
Range			Reference	Calibration medium	Article No.
0.022 m³/h	to	57.9 m³/h	DVP	air	CQ-100 DAKKS
5 m³/h	to	100 m³/h	AVP	air	CQ-100 DAKKS
5 m³/h	to	1600 m³/h	AVP	air	CQ-1600 DAKKS
5 m³/h	to	5500 m³/h	AVP	air	CQ-5500 DAKKS
5 m³/h	to	10000 m³/h	AVP	air	CQ-10000 DAKKS
additional	calib	ration values	per value		CQ-X

For the measurement uncertainty of the reference please refer to the calibration document U325. Calibration is carried out at room temperature under atmospheric conditions. These calibrations always include as well a DakkS calibration certificate.

ISO air/gas flow rate calibration – measuring tubes (atmospheric or at pressure)

	Diac		scaled measuring range		
Range			Reference	Calibration medium	Article No.
0.022 m³/h	bis	61 m³/h	DVP	air	CQ-100 ISO
0.06 m³/h	bis	100 m³/h	RVP	air *	CQ-100 ISO
0.2 m³/h	bis	100 m³/h	HDVP**	air *	CQ-100 ISO
1.5 m³/h	bis	100 m³/h	AVP	air	CQ-100 ISO
0.2 m³/h	bis	1600 m³/h	HDVP**	air *	CQ-1600 ISO
1.5 m³/h	bis	1600 m³/h	AVP	air	CQ-1600 ISO
0.2 m³/h	bis	4000 m³/h	HDVP**	air *	CQ-5500 ISO
1.5 m³/h	bis	5500 m³/h	AVP	air	CQ-5500 ISO
1.5 m³/h	bis	10000 m³/h	AVP	air	CQ-10000 ISO
additional	calib	ration values	per value		CQ-X

6 standard calibration values in the scaled measuring range

other gases on request *

** calibration at pressure up to 10 bar / 1 MPa and pipe dimension up to DN200

For the measurement uncertainty of the reference please refer to the calibration document U325. Additional costs for sensor adaption may apply for special designs. Sensors in special designs may incur additional costs for sensor adaptation.

If a FA Di measuring tube does not have a directly assigned transducer, the profile factor and the pairs of value of frequency and average flow velocity are determined during calibration and documented in the calibration certificate.

The pairs of values are used for an optimal adaptation of sensor and transducer to achieve the highest possible accuracy.

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Liquid flow calibration		
6 standard calibration values		
Calibration medium	Range	Article No.
water	0.02 l/min to 9 l/min	CQ-FVP
additional calibration values	per value	CQ-FVPX
Calibration in other liquids on requ Additional costs for sensor adaptic Liquid flow calibration – flow s	on may apply for special designs.	
6 standard calibration values		
Calibration medium	Range	Article No.
water	0.5 m³/h to 100 m³/h (0.02 m/s to 3.5 m/s)	CQ-WVP
additional calibration values	per value	CQ-WVPX

For the measurement uncertainty of the reference please refer to the calibration document U325. The average flow velocity based on flow rate together with a profile factor are determined and documented in the calibration certificate. Calibration of FAR probes generally from one direction of flow. Additional costs for sensor adaption may apply for special designs.

Velocity calibration – flow sens	ors - in high-temperature testing facility		
6 standard calibration values			
Calibration medium	Range	Article No.	
air	0.5 m/s to 70 m/s, operating temperature +20 °C to 400 °C	C-HTP	
additional calibration values	per value	C-HTPX	
For the measurement uncertainty of the reference please refer to the calibration document U325.			

Calibration – temperature prob	25	
3 standard calibration values incl. of	alibration certificate	
	Range	Article No.
temperature calibration	+20 °C to +100 °C	KLB-T/PT100
additional calibration values	per value	CT-X
Comparison with reference thermo Measurement uncertainty of the rel		

ISO / DAkkS Calibration certifi	cates	
		Article No.
Calibration certificate*	ISO or DAkkS calibration certificate as proof of traceability	KLB
* the colling time of mean surface to be	a alwaya aytamatically includes a calibration cor	L: 6:

* the calibration of measuring tubes always automatically includes a calibration certificate

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flow measuring technology

Туре	Description	Article No.
Transducer - separate or integrated in the sensor	visual inspection, assessment, performance check and adjustment, software update, minor repair work	PRÜ-U
Ex-transducer – separate or integrated in the sensor	visual inspection, assessment, performance check and adjustment, software update, check of parameters relevant for explosion protection, minor repair work	PRÜ-Ex
System unit with keypad and display	visual inspection, assessment, performance check and adjustment	PRÜ-S
Ex-system unit with keypad and display	visual inspection, assessment, performance check and adjustment, software update, check of parameters relevant for explosion protection, minor repair work	PRÜ-S-Ex
Handheld unit	visual inspection, assessment, performance check and adjustment, software update, minor repair work	PRÜ-H
Ex-handheld unit	visual inspection, assessment, performance check and adjustment, determination of battery life, software update, check of parameters relevant for explosion protection, minor repair work	PRÜ-X
External devices	visual inspection, assessment, performance check	PRÜ-FREMD

Miscellaneous				
Туре	Description	Article No.		
Temperature test	performance check of flow sensors at varying temperatures in the range +20 °C to +600 °C in temperature test chamber	PRÜ-VT		



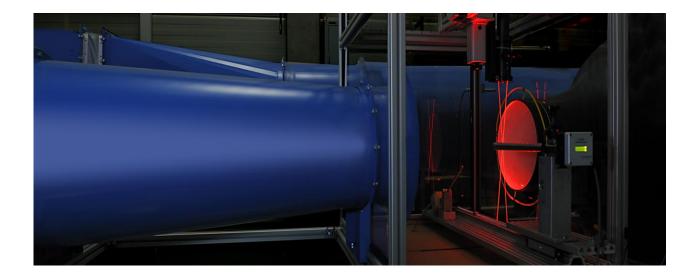
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flow measuring technology

Inspection documents for metallic products according to 10204:2004				
Туре	Description	Article No.		
2.1 Declaration of compliance with the order	Manufacturer's statement of compliance with the order	WB 2.1		
2.2 Test report	Manufacturer's statement of compliance with the order with indication of results on non-specific inspection	WB2.2		
3.1 Inspection certificate	Statement of compliance with the order with indication of results of specific inspection by manufacturer's authorized inspection representative independent of the manufacturing department	WB 3.1		
Compliance statement	ISO 9001	CECONF		

Example of possible article combination

Sensor	Service	Article No.	
ZS25 with integrated transducer	Calibration certificate "as found" (optional) Calibration up to 30 m/s Inspection charge FA Inspection charge transducer Calibration certificate "as left" (optional) Calibration up to 30 m/s	KLB CV-30 PRÜ-FA PRÜ-U KLB CV-30	



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Subject to alteration