

price list 2012

valid from 01.01.2012

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KCM/TCM Coriolis Mass Flow Meter

1. KCM/TCM transducer

- material as per DIN 1.4571 (AISI 316 Ti) for wetted parts
- 1 calibration incl. record

type	measuring range kg/h	unit price €
KCM 0300	4.5 to 300	2.011,00
KCM 0600	9.0 to 600	2.011,00
KCM 1500	25 to 1,500	2.465,00
KCM 3000	50 to 3,000	2.465,00
KCM 6000	60 to 6,000	2.581,00
TCM 28K	288 to 28,000	4.038,00
TCM 65K	650 to 65,000	6.040,00

2. KCE/TCE transmitter

- panel-mounted or wall-mounted housing and compact version

type	unit price €
KCE/TCE 8000-C (Compact version)	1.105,00
KCE/TCE 8000-WG (Remote electronic, wall-mounted version)	1.305,00
KCE/TCE 8000-SG (Remote electronic, panel-mounted version)	1.105,00
KCE/TCE 6000 (Electronic on top, Compact version without display)	667,00

options:	extra price €
HART communication (only for KCE/TCE 8000)	266,00
Ex protection KCE/TCE 8000	664,00
Ex protection KCE/TCE 6000	175,00
additional switching output for KCE/TCE 6000	118,00
Optical Output	on request
TRD additional display for KCE/TCE 6000 & 8000	424,00

3. KCC data transmission cable

type	unit price €
KCC 003.0-*-08 (3 m length)	119,00
each additional meter	15,00

3.

KCM/TCM Coriolis Mass Flow Meter

KCM/TCM options

<ul style="list-style-type: none"> process connectors: Tri-clamp as per DIN 32676 / ANSI 	extra price €
Dia 15	313,00
Dia 25 / 1.0 "	349,00
Dia 40 / 1.5 "	398,00
Dia 50 / 2.0 "	443,00
<ul style="list-style-type: none"> process connectors: dairy fittings as per DIN 11851 	extra price €
Dia 15	303,00
Dia 25	338,00
<ul style="list-style-type: none"> process connectors: flanges as per DIN/ANSI to dia 25/1" 	extra price €
PN 40 or ANSI class 150/300 or JIS 10K to 40K	263,00
PN 100 or ANSI class 600	425,00
PN 160 or ANSI class 900	523,00
PN 250 or ANSI class 1500	on request
<ul style="list-style-type: none"> version with rupture disk (up to KCM 3000) max. 100 bar 	extra price €
for all KCM and TCM	160,00

The technical sales and construction department has to check the connection types
for functionality and production possibility

The combination of the flange size and pressure rating is not always feasible

ZHM Gear Flow Meters

1. ZHM...ST series with tungsten carbide bearings & SS body

- materials as per DIN 1.4122 and 1.4305 (AISI 303)
- 1 calibration incl. record

type	measuring range lpm	unit price €
ZHM 01 ST	0.005 to 1	2.007,00
ZHM 01/1 ST	0.005 to 2	2.007,00
ZHM 01/1 CT ¹⁾	0.005 to 2	2.190,00
ZHM 01/2 ST	0.02 to 3	2.007,00
ZHM 01/2 CT ¹⁾	0.02 to 3	2.190,00
ZHM 02/1 ST	0.05 to 2	2.007,00
ZHM 02/1 LW ²⁾	0.05 to 2	2.190,00
ZHM 02 ST	0.1 to 7	2.007,00
ZHM 02 LW ²⁾	0.1 to 7	2.190,00
ZHM 03 ST	0.5 to 25	2.148,00
ZHM 04 ST	0.5 to 70	2.265,00
ZHM 05 ST	5 to 150	3.778,00
ZHM 06/1 ST	5 to 250	6.363,00
ZHM 06 ST	20 to 500	6.363,00
ZHM 07 ST	50 to 1,000	9.230,00

2. ZHM...KL series with ball bearings & SS body

- materials as per DIN 1.4122 and 1.4305 (AISI 303) with ball bearings
- 1 calibration incl. record

type	measuring range lpm	unit price €
ZHM 01/3 KL	0.002 to 0.5	2.007,00
ZHM 01/2 KL	0.02 to 3	1.129,00
ZHM 02 KL	0.1 to 7	1.044,00
ZHM 03 KL	0.5 to 25	1.185,00
ZHM 04 KL	0.5 to 70	1.736,00
ZHM 05 KL	5 to 150	2.803,00
ZHM 06/1 KL	5 to 250	3.547,00
ZHM 06 KR	20 to 500	3.633,00
ZHM 07 KR	50 to 1,000	4.631,00

ZHM Gear Flow Meters

3. ZHA...KL series with ball bearings & aluminium body

- material: housing in high-strength aluminium AlCuMgPb
- 1 calibration incl. record

type	measuring range lpm	unit price €
ZHA 01/2 KL	0.02 to 3	826,00
ZHA 02 KL	0.1 to 7	656,00
ZHA 03 KL	0.5 to 25	692,00
ZHA 04 KL	0.5 to 70	762,00
ZHA 05 KL	5 to 150	1.684,00
ZHA 06 KR	20 to 500	2.313,00
ZHA 07 KR	50 to 1,000	3.355,00

4. ZHM...HP with high pressure connection

- materials as per DIN 1.4404, special XYLAN coated bolts
- autoclave connection
- 1 calibration incl. record

type	measuring range lpm	unit price €
ZHM 01/1 HC	0.005 to 2	2.208,00
ZHM 01/2 HP	0.02 to 3	2.208,00
ZHM 02 HP	0.1 to 7	2.208,00
ZHM 03 HP	0.5 to 25	2.363,00
ZHM 04 HP	0.5 to 70	2.492,00

Options (only available for ZHM version):

	extra price €
adapter plate for ZHM 01/*...CT	114,00
special material housing 1.4404 and gears 1.4501	+30 %
heated version (only ZHM 1/2 & 2)	on request

HM Turbine Flow Meter

1. HM...F series with flange connections

- materials as per DIN 1.4122, 1.4305 (AISI 303)
- 1 calibration incl. record
- flange versions up to PN 64 as per DIN or up to 400 lbs/in as per ANSI B.16.5

type	measuring range lpm	unit price €
HM 015/003 F	0.3 to 1.5	2.202,00
HM 015/004 F	0.5 to 4	2.202,00
HM 015/005 F	0.8 to 6	2.160,00
HM 015/006 F	1.2 to 10	2.160,00
HM 015/007 F	2 to 20	2.082,00
HM 015/009 F	3.3 to 33	2.008,00
HM 015/011 F	6 to 60	1.986,00
HM 025/009 F	3.3 to 33	2.053,00
HM 025/011 F	6 to 60	2.032,00
HM 025/013 F	8.5 to 85	2.032,00
HM 025/017 F	12 to 120	2.047,00
HM 025/019 F	15 to 150	2.109,00
HM 025/022 F	20 to 200	2.170,00
HM 025/024 F	25 to 250	2.219,00
HM 040/022 F	20 to 200	2.257,00
HM 040/024 F	25 to 250	2.350,00
HM 040/028 F	30 to 360	2.448,00
HM 040/030 F	35 to 400	2.459,00
HM 040/036 F	40 to 500	2.466,00
HM 0040 F	50 to 750	2.379,00
HM 050 F	70 to 1,200	3.066,00
HM 065 F	100 to 2,000	3.664,00
HM 080 F	160 to 3,200	4.448,00
HM 100 F	250 to 5,000	4.975,00
HM 125 F	300 to 6,600	7.706,00
HM 150 F	350 to 10,000	10.447,00
HM 200 F	430 to 13,400	15.443,00
HM 250 F	830 to 25,000	17.890,00

Price is always based on housing, NOT internal
alternative pressure rate listed on page 12

HM Turbine Flow Meter

2. HM...R series with female inch threads

- materials as per DIN 1.4122, 1.4305 (AISI 303)
- 1 calibration incl. record

type	measuring range lpm	unit price €
HM 009 RP	0.03 to 0.8	1.290,00
HM 003 R	0.3 to 1.5	1.545,00
HM 004 R	0.5 to 4	1.545,00
HM 005 R	0.8 to 6	1.430,00
HM 006 R	1.2 to 10	1.430,00
HM 007 R	2 to 20	1.347,00
HM 009 R	3.3 to 33	1.290,00
HM 011 R	6 to 60	1.299,00
HM 013 R	8.5 to 85	1.320,00
HM 019 R	15 to 150	1.336,00
HM 028 R	30 to 360	1.595,00
HM 030 R	35 to 400	1.595,00

3. HM...E series with Ermeto threads

- materials as per DIN 1.4122, 1.4305 (AISI 303)
- 1 calibration incl. record

type	measuring range lpm	unit price €
HM 009 EP	0.03 to 0.8	1.566,00
HM 003 E	0.3 to 1.5	1.859,00
HM 004 E	0.5 to 4	1.859,00
HM 005 E	0.8 to 6	1.839,00
HM 006 E	1.2 to 10	1.839,00
HM 007 E	2 to 20	1.738,00
HM 009 E	3.3 to 33	1.666,00
HM 011 E	6 to 60	1.647,00
HM 013 E	8.5 to 85	1.647,00
HM 017 E	12 to 120	1.660,00
HM 019 E	15 to 150	1.723,00
HM 022 E	20 to 200	1.797,00
HM 024 E	25 to 250	1.876,00
HM 028 E	30 to 360	1.963,00
HM 030 E	35 to 400	2.047,00
HM 036 E	40 to 500	2.207,00

HM Turbine Flow Meter

4. HM...TC/AC series for high-pressure applications

- materials as per DIN 1.4571, 1.4460 (AISI 316)
- 1 calibration incl. record

type	measuring range lpm	unit price €
HM 003/TC-AC	0.3 to 1.5	2.728,00
HM 004/TC-AC	0.5 to 4	2.728,00
HM 005/TC-AC	0.8 to 6	2.699,00
HM 006/TC-AC	1.2 to 10	2.699,00
HM 007/TC-AC	2 to 20	2.924,00
HM 009/TC-AC	3.3 to 33	2.924,00
HM 011/TC-AC	6 to 60	2.924,00

5. HM...NS series for high-pressure applications

- materials as per DIN 1.4571, 1.4460 (AISI 316)
- 1 calibration incl. record

type	measuring range lpm	unit price €
HM 003/TC-*/S	0.3 to 1.5	2.728,00
HM 004/TC-*/S	0.5 to 4	2.728,00
HM 005/TC-*/S	0,8 to 6	2.699,00
HM 006/TC-*/S	1.2 to 10	2.699,00
HM 007/TC-*/V	2 to 20	2.924,00
HM 009/TC-*/V	3.3 to 33	2.924,00

HM Turbine Flow Meter

6. HM...NPT with NTP male connections

- materials as per DIN 1.4122, 1.4305 (AISI 303)
- 1 calibration incl. record

type	measuring range gpm	unit price €
HM 003 NPT (AW type TRG-11.250-5)	0.08 to 0.4	822,00
HM 004 NPT (AW type TRG-11.300-5)	0.13 to 1.06	822,00
HM 006 NPT (AW type TRG-11.375-5)	0.3 to 3	665,00
HM 009 NPT (AW type TRG-11.500-5)	0.9 to 9.0	603,00
HM 011 NPT (AW type TRG-11.750-5)	1.6 to 16	680,00
HM 011 NPT (AW type TRG-11.750)	1.6 to 16	696,00
HM 017 NPT (AW type TRG-11.875)	3.2 to 32	732,00
HM 022 NPT (AW type TRG-11110)	5.3 to 53	773,00
HM 040 NPT (AW type TRG 1120L)	13 to 200	1.226,00
HM 050 NPT (AW type TRG 1120)	40 to 400	1.226,00

7. HM...FT with Tri-Clamp connections

- materials as per DIN 1.4571, 1.4460 (AISI 316 Ti) and PTFE bearings
- lateral flush bores in bearing mounts
- 1 calibration incl. record

type	measuring range lpm	unit price €
HM 003 FT	0.3 to 1.5	2.442,00
HM 004 FT	0.5 to 4	2.442,00
HM 005 FT	0.8 to 6	2.396,00
HM 006 FT	1.2 to 10	2.328,00
HM 007 FT	2 to 20	2.319,00
HM 009 FT	3.3 to 33	2.243,00
HM 011 FT	6 to 60	2.127,00
HM 013 FT	8.5 to 85	2.127,00
HM 017 FT	12 to 120	2.155,00
HM 019 FT	15 to 150	2.219,00
HM 022 FT	20 to 200	2.396,00
HM 024 FT	25 to 250	2.444,00
HM 028 FT	30 to 360	2.529,00
HM 030 FT	35 to 400	2.613,00

HM Turbine Flow Meter

8. HM...RL series for solvents and demi-water

- with integral pulse amplifier and preset divider
- incl. ATEX approval
- 1 calibration incl. record

type	measuring range lpm	unit price €
HM 003/TC-R/S-01	0.3 to 1.5	899,00
HM 004/TC-R/S-01	0.5 to 4	899,00
HM 005/TC-R/S-01	0.8 to 6	899,00
HM 006/TC-R/S-01	1.2 to 10	899,00
HM 007/TC-R/S-01	2 to 20	899,00
HM 013/TC-R/S-01	8.5 to 85	899,00

9. HMP for monitoring temperature control circuits

- materials as per DIN 1.4122, 1.4305 (AISI 303)
- 1 calibration incl. record

type	measuring range lpm	unit price €
HMP 06-180	1.0 to 10	463,00
HMP 06-350	1.0 to 10	1.035,00
HMP 09-180	3.0 to 30	463,00
HMP 09-350	3.0 to 30	1.035,00
HMP 12-180	8.5 to 85	463,00
HMP 12-350	8.5 to 85	1.035,00
HMP 17-180	15 to 150	463,00
HMP 17-350	15 to 150	1.035,00
HMP 25-180	28 to 280	463,00
HMP 25-350	28 to 280	1.035,00

10. HM.../*U* for hydraulic applications

- materials: Aluminim AlCuMgPb
- 1 calibration incl. record

	measuring range lpm	unit price €
HM 007 U*	1.2 to 20	669,00
HM 011 U*	6.0 to 60	669,00
HM 022 U*	15 to 300	698,00
HM 030 U*	40 to 600	727,00

11.

HM Turbine Flow Meter

11. HM...RV with dairy connections acc. DIN 11851

- materials as per DIN 1.4122, 1.4305 (AISI 303)
- 1 calibration incl. record

	unit price
	€
	on request

Options

- DIN flanges for higher pressure rates for HM...F

pressure rate	Extra price
PN 100	5%
PN 160	15%
PN 250	20%
PN 320	25%
PN 400	50%

- ANSI flanges for higher pressure ratings for HM...F

pressure rate	extra price
Class 600	5%
Class 900	15%
Class 1500	25%
Class 2500	50%

- RTJ flanges for higher pressure ratings for HM...F

pressure rate	extra price
Class 600	5%
Class 900	15%
Class 1500	25%
Class 2500	50%

HM Turbine Flow Meter

- special materials 1.4571 and 1.4460

turbines	extra price €
up to dia DN 17	198,00
DN 19-65	350,00
DN 80-100	472,00
from dia DN 125	623,00

SRZ Helical Flow Meter

1. SRZ...ST series with tungsten carbide bearings

- materials as per DIN 1.4122, 1.4305 (AISI 303)
- 1 calibration incl. record

type	measuring range lpm	unit price €
SRZ 10	0.02 to 4	2.287,00
SRZ 20	0.04 to 16	2.502,00
SRZ 40	0.4 to 40	2.522,00
SRZ 100	1 to 100	3.797,00
SRZ 400	4 to 400	5.382,00

2. SRZ...KL series with ball bearings

- materials as per DIN 1.4122, 1.4305 (AISI 303)
- 1 calibration incl. record

type	measuring range lpm	unit price €
SRZ 40 KL	0.4 to 40	1.812,00
SRZ 100 KL	1 to 100	3.087,00
SRZ 400 KL	4 to 400	4.379,00

Options (only for SRZ version):

	extra price €
special material	+30%
heated versions	on request
with integral dual pickup (high resolution)	auf Anfrage

LFM Micro Flow Meter

- materials as per DIN 1.4122, 1.4305 (AISI 303)
- 1 calibration incl. record

type	measuring range lpm	unit price €
LFM 10	0.005 to 0.25	1.566,00

accessories:

		unit price €
tube filter	40 micron	230,00

KPS Turbidity meter

type	connection	unit price €
KPS 1.5-FT (Tri-Clamp)	1.5"	1.509,00
KPS 2.0-FT	2"	1.509,00
KPS 2.5-FT	2.5"	1.509,00
KPS 40-V (Varivent ®)	N	1.509,00
KPS 50-RV (dairy connection)	DN 50	1.509,00
KPS 65-RV	DN 65	1.509,00

Options for all Flow Meters

additional factory calibration

	unit price €
up to dia 40 with one calibration record	321,00
from dia 40 with one calibration record	641,00

DKD calibration

	unit price €
DKD calibration with certificate	1.211,00

certificates

	unit price €
certificate as per DIN 50049/3.1B	193,00
certificate as per DIN 50049/2.2	122,00
pressure test acc. DIN 2401.2.3	218,00
welding material certificate	117,00

Adapter

	unit price €
Loos Flange	on request

Start Up

	price €
rate per hour for a senior technician	149,00
rate per hour for an engineer	102,00

Pickups and Amplifiers

1. VT... series carrier-frequency pickups (for standard applications)

type	unit price €
VTE*/P	304,00
VTE*/P-Ex	493,00
VTE*/P (with PG cable gland)	328,00
VTE*/P-Ex (with PG cable gland)	530,00
VTE-C*	328,00
VTE-C*-Ex	530,00
TD* (for pulse doubling)	632,00
TD* Ex (for pulse doubling)	964,00

2. VHE...series hall effect amplifier (for ZHA aluminium gear flow meters ZHA 01/2 to ZHA 04)

type	unit price €
VHE*	186,00
VHD* (with double pickup)	239,00

3. FOP... series fibre-optic amplifier, splitted prices (for electrostatic applications)

type	unit price €
FOP 60 (pulse-light transmitter)	800,00
LWL-Cable (LW-LA-10), 10 meter (max. 12.5 meter)	140,00
OPTV-02/* (light-pulse transmitter)	157,00

Pickups and Amplifiers

4. IF... series inductive pickup coils without amplifier (for high fluid temperatures)

type	unit price €
IF*	231,00
IF* (Ex)	436,00
IF* PG	253,00
IF* PG (Ex)	457,00
IF* HT	354,00
IF* HT (Ex)	559,00
IF* HTK	526,00

5. VIE... series inductive amplifiers (for applications with high fluid temperatures)

type	unit price €
VIE* incl. IF inductive pickup	474,00
VIE*-** (Ex) incl. IF inductive pickup	788,00
VIEG for IF inductive pickups	311,00
VIEG-** (Ex) for IF inductive pickups	541,00
VIE*/P incl. IF inductive pickup	304,00

6. IG 03 H hall effect amplifier (for ZHA aluminium gear flow meters ZHA 05 and ZHA 06)

type	unit price €
IG 03 H	304,00

Intrinsically Safe Supply

1. EWS (frequency)

type	unit price €
EWS 230 AC (110 AC, 24 AC) incl. OC output	356,00
EWS 24 DC, OC	386,00

EWS options:	unit price €
PLC output, 24 V, active PNP	40,00
NAMUR output	23,00
reverse flow detection, frequency doubling	34,00

1. PFU (analogue)

type	unit price €
KFD2-STC4-Ex1	492,00

Evaluation Electronics

1. WT/I.02 - Frequency to analogue Converter

type	unit price €
WT/I.02*	360,00
WT/I.02* (Ex)	590,00

options:	extra price €
CON.USB.WT incl. Easy Control Software	318,00
programming WT/WI (incl. linearization with x calibration points and testing)	52,00

2. VTC* - On-Site Display

type	unit price €
VTC* Basic version (only analog & frequency output)	424,00

VTC* basic options:	extra price €
HART protocol	266,00
USB connections (not available incl. HART)	266,00
ATEX certificate (EEx i)	223,00
programming VTC (incl. linearization with x calibration points and testing)	52,00

Evaluation Electronics

3. V*G - On-Site Display

type	unit price €
VTG AI (aluminum housing)	635,00
VTG ST (stainless steel housing)	1.139,00
VIG AI	635,00
VIG ST	1.139,00
V*G-Options:	
	unit price €
HART protocol	266,00
USB connection	266,00
ATEX Certificate (EEx d)	223,00
programming VTG/VIG (incl. linearization with x calibration points and testing)	52,00

4. VTB - Battery-powered Display Unit

type	unit price €
VTB-AI (aluminum housing)	925,00
VTB-AI-Ex	1.234,00
VTB-ST (stainless steel housing)	1.131,00
VTB-ST-Ex	1.543,00

Evaluation Electronics

5. FAS* - Remote Display

type	unit price €
FAS 101 panel-mounted display with digital input for 24V signals	350,00
FAS 111 same as FAS 101, with RS485 interface, linearization & control output	467,00

6. FAW* - Remote Display wall-mounted

type	unit price €
FAW 101 wall-mounted display with digital input for 24V signals	432,00
FAW 141 same as FAW 101, with add. Power supply 100-240VAC	463,00
FAW 111 same as FAW 101, with RS485 interface, linearization and control output	645,00
FAW 151 same as FAW 111, with add. Power supply 100-240VAC	676,00

FAS* options:	unit price €
HSA 72 (adapter FAS 100 for rail mounting)	21,00
IPS 9-7 (IP65-Protection for housing 96*72mm)	19,00

Accessories for Electronics

1. Cables

for IF* and VIEG	per meter €
3-core, screened NF cable, grey	14,00
as above, however blue for Ex zone	15,00
3-core high temperature cable, white	21,00

for VTE*/P, TD*, HE* and HD*	per meter €
5-core, screened NF cable, grey	16,00
5-core, screened NF cable, Ex zone	17,00

2. Sockets

for IF*	price €
3-pin socket	36,00
3-pin right-angle socket	61,00

for VTE*/P, WT*, WI* TD*, HE* and HD*	price €
5-pin socket type 423	21,00
5-pin right-angle socket type 423	24,00
5-pin socket type 713 (M12)	25,00
5-pin right-angle socket type 713 (M12)	31,00

for VTC*	price €
8-pin socket	28,00

Delivery Terms, Prices, Address

Delivery is effected on our terms & conditions
These are available on our Homepage

All prices in this list are net, EXW Karlsfeld, excluding packing plus VAT
where applicable.

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