

**red-y for gasflow**

# Price list EURO

**Thermal Mass Flow Meters and Controllers including Options & Service**

Valid from February 21st 2011 – Version 1.2011



## Conditions

This price list remains valid until revoked. We reserve the right to adopt prices due to fluctuation in exchange rates EUR/CHF.

Kindly consider our minimum order value of EURO 100.– net.

All prices without VAT.

Beside we refer to our General Terms and Conditions for Sales and Delivery:  
[http://voegtlin.sharepointhosting.ch/DOCUMENTS/399-2021\\_en\\_termscondition.pdf](http://voegtlin.sharepointhosting.ch/DOCUMENTS/399-2021_en_termscondition.pdf)

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**Thermal mass flow meters & regulators red-y compact series**

**Battery powered thermal mass flow meters for gases**

G C . . . . . M . . . . . A . . . . . S . . . . . B F	Accuracy: 1.0% of full scale Turndown ratio: 1: 50	<b>B Battery supply</b>				<b>F 24Vdc supply</b> cable length: 3m							
	<b>Instrument version</b>	<b>M meter</b>		<b>R regulator</b>		<b>M meter</b>		<b>R regulator</b>		<b>S switch</b>		<b>A all-in</b>	
	<b>Materials:</b>	<b>A</b> Al/FKM	<b>S</b> SS/FKM	<b>A</b> Al/FKM	<b>S</b> SS/FKM	<b>A</b> Al/FKM	<b>S</b> SS/FKM	<b>A</b> Al/FKM	<b>S</b> SS/FKM	<b>A</b> Al/FKM	<b>S</b> SS/FKM	<b>A</b> Al/FKM	<b>S</b> SS/FKM

**Media: Ar**

Max. flow full scale meter/switch regulator/all-in	<b>Connection: G1/4"</b>				<b>Valve: built-in</b>							
540mln/min 540 mln/min 5'400 mln/min 5'400 mln/min EUR 54 l/min 54 l/min	565.00	705.00	640.00	820.00	635.00	775.00	710.00	890.00	715.00	855.00	790.00	970.00
	<b>Connection: G1/2"</b>				<b>Valve: flange mounted</b>							
100 l/min 100 l/min 200 l/min 200 l/min	830.00	1'010.00	1'015.00		900.00	1'080.00	1'085.00		980.00	1'160.00	1'165.00	
	960.00	1'140.00	1'145.00		1'030.00	1'210.00	1'215.00		1'110.00	1'290.00	1'295.00	

**Media: He**

Max. flow full scale meter/switch regulator/all-in	<b>Connection: G1/4"</b>				<b>Valve: built-in</b>							
2 l/min 2 l/min 20 l/min 20 l/min EUR 200 l/min 200 l/min	580.00	720.00	655.00	835.00	650.00	790.00	725.00	905.00	730.00	870.00	805.00	985.00
	<b>Connection: G1/2"</b>				<b>Valve: flange mounted</b>							
300 l/min 300 l/min	880.00	1'060.00	1'065.00		950.00	1'130.00	1'135.00		1'030.00	1'210.00	1'215.00	

**Media: H2**

Max. flow full scale meter/switch regulator/all-in	<b>Connection: G1/4"</b>				<b>Valve: built-in</b>							
2 l/min 2 l/min 20 l/min 20 l/min EUR 200 l/min 200 l/min	600.00	740.00	675.00	855.00	670.00	810.00	745.00	925.00	750.00	890.00	825.00	1'005.00
	<b>Connection: G1/2"</b>				<b>Valve: flange mounted</b>							
300 l/min 300 l/min	740.00	880.00	875.00	1'055.00	810.00	950.00	945.00	1'125.00	890.00	1'030.00	1'025.00	1'205.00

**Media: CO2**

Max. flow full scale meter/switch regulator/all-in	<b>Connection: G1/4"</b>				<b>Valve: built-in</b>							
300 mln/min 300 mln/min 3'000 mln/min 3'000 mln/min EUR 30 l/min 30 l/min	565.00	705.00	640.00	820.00	635.00	775.00	710.00	890.00	715.00	855.00	790.00	970.00
	<b>Connection: G1/2"</b>				<b>Valve: flange mounted</b>							
50 l/min 50 l/min 100 l/min 100 l/min	750.00	930.00	935.00		820.00	1'000.00	1'005.00		900.00	1'080.00	1'085.00	
	860.00	1'040.00	1'045.00		930.00	1'110.00	1'115.00		1'010.00	1'190.00	1'195.00	

**Media: C3H8**

Max. flow full scale meter/switch regulator/all-in	<b>Connection: G1/4"</b>				<b>Valve: built-in</b>							
120 mln/min 120 mln/min 1'200 mln/min 1'200 mln/min EUR 12 l/min 12 l/min	570.00	710.00	645.00	825.00	640.00	780.00	715.00	895.00	720.00	860.00	795.00	975.00
	<b>Connection: G1/2"</b>				<b>Valve: flange mounted</b>							
50 l/min 50 l/min	760.00	940.00	945.00		830.00	1'010.00	735.00		910.00	1'090.00	1'095.00	

**Media: CH4**

Max. flow full scale meter/switch regulator/all-in	<b>Connection: G1/4"</b>				<b>Valve: built-in</b>							
600 mln/min 600 mln/min 6'000 mln/min 6'000 mln/min EUR 50 l/min 50 l/min	570.00	710.00	645.00	825.00	640.00	780.00	715.00	895.00	720.00	860.00	795.00	975.00

gasmeter compact series function measuring channel measuring range version materials supply, totalizer valve materials



**Thermal mass flow meters and controllers red-y smart series**

G S M C S T A S A B C D D D Gasmeter smart series Function Measuring channel Measuring range Version Materials Analog signals Full scale	<b>Thermal mass flow meters and controllers for gases</b>											
					<b>GSM smart meter</b>		<b>GSC smart controller</b>					
	<b>Instrument versions:</b>				<b>S Standard</b>		<b>T Hi-Performance</b>		<b>S Standard</b>		<b>T Hi-Performance</b>	
	<b>Accuracy:</b>				1.5% FS		0.3% FS & 0.5% MV		1.5% FS		0.3% FS & 0.5% MV	
	<b>Turndown ratio:</b>				1 : 30		1 : 100		1 : 30		1 : 100	
	<b>Materials (Body, seals):</b>				A AI/FKM	S SS/FKM	A AI/FKM	S SS/FKM	A AI/FKM	S SS/FKM	A AI/FKM	S SS/FKM
	<b>Media: Air / N2 / O2</b>										<b>See next page for other gases</b>	
	<b>Max. flow meter</b>				<b>Max. flow controller</b>				<b>Connection: G1/4"</b>			
	Full scale 600 mln/min				600 mln/min				EUR			
	Full scale 6'000 mln/min				6'000 mln/min				725.00 835.00 905.00 1'015.00 1'040.00 1'170.00 1'220.00 1'350.00			
	Full scale 60 ln/min				60 ln/min							
	<b>Max. flow meter</b>				<b>Max. flow controller</b>				<b>Connection: G1/2"</b>			
	Full scale 100 ln/min				100 ln/min				1) 835.00 1'025.00 1'125.00 1'315.00 1'300.00 1'520.00 1'590.00 1'810.00			
	Full scale 200 ln/min				*200 ln/min				1) 975.00 1'165.00 1'265.00 1'455.00 1'440.00 1'660.00 1'730.00 1'950.00			
	Full scale 450 ln/min				450 ln/min				2) 1'135.00 1'325.00 1'900.00 2'120.00			
* GSC Hi-Performance = Full scale 150 ln/min												
<b>Measured value (output signal)</b>												
<b>Code:</b> B C D E F G K												
Current mA 4-20 0-20												
Voltage V 0-5 1-5 0-10 2-10 K												
0.00 0.00												
<b>Setpoint (input signal)</b>												
<b>Code:</b> B C D E F G N K												
Current mA 4-20 0-20												
Voltage V 0-5 1-5 0-10 2-10 N K												
0.00												
K= customer-specific N= non-defined												
<b>Multigas Version</b>												
<b>Additional calibration curve</b>					<b>Real gas calibration</b>							
<b>Surcharge for each gas</b>												
Basically, multigas is with real gas calibrated.												
Air, N2, O2					Standard		Hi-Performance					
Ar, He, H2, CO2, C3H8, CH4					A,B,C	D	A,B,C	D				
(other gases on request)					75.00	100.00	100.00	125.00				
Multigas Option **					125.00	150.00	150.00	200.00				
Copy + function for calibration data					45.00							
<b>Options</b>												
<b>Factors (standard gas) **</b>					<b>Price EUR</b>							
additional charge to calibration gas					45.00							
<b>Gasmixture **</b>					45.00							
additional charge to calibration gas					30.00							
<b>Customer-specific turndown ratio **</b>					on request							
Standart Smart GSC 1.5 % turn down ratio 1: 100					on request							
Open or customer-specific turndown ratio												
<b>Customer-sepecific accuracy **</b>												
<b>EPDM Version</b>					20.00							
GSM meter B=A/EPD T=SS/EPDM					48.00							
GSC controller B=A/EPD T=SS/EPDM					60.00							
<b>Reverse flow</b>					120.00							
328-4104 Reverse flow dedection (4..0mA/1..0V/2..0V)					180.00							
328-4105 Reverse flow measurement (4..0mA/1..0V/2..0V)												
<b>Field Bus</b>					Profibus DP							
<b>** After consulting the manufacturer</b>												
<b>Valve execution low Δ p with G1/2"</b>												
1) & 2) Valve type 8.0 for low Δ p version					Surcharge 300.00							
<b>Remark</b>												
1) Valve 8.0 is only available with surcharge and when feasibility checked												
2) Valve 8.0 is already included in the price.												



red-y smart controller GSC





**Thermal mass flow meters and controllers red-y smart series**

Thermal mass flow meters and controllers for gases													
		M smart meter				C smart controller							
Instrument versions:		S Standard		T Hi-Performance		S Standard		T Hi-Performance					
Accuracy:		1.5% FS		0.3% FS & 0.5% MV		1.5% FS		0.3% FS & 0.5% MV					
Turndown ratio:		1 : 30		1 : 100		1 : 30		1 : 100					
Materials (Body, seals):		A Al/FKM	S SS/FKM	A Al/FKM	S SS/FKM	A Al/FKM	S SS/FKM	A Al/FKM	S SS/FKM				
<b>Media: Ar</b>													
		Max. flow meter	Max. flow controller	Connection: G1/4"									
A	9	Full scale	540 ml/min	540 ml/min	EUR	790.00	900.00	970.00	1'080.00	1'105.00	1'235.00	1'285.00	1'415.00
B	9	Full scale	5'400 ml/min	5'400 ml/min									
C	9	Full scale	54 l/min	54 l/min									
Connection: G1/2"													
D	9	Full scale	100 l/min	100 l/min	1)	995.00	1'185.00	1'285.00	1'475.00	1'460.00	1'680.00	1'750.00	1'970.00
D	9	Full scale	* 300 l/min	300 l/min	1)	1'185.00	1'375.00	1'475.00	1'665.00	1'650.00	1'870.00		
* GSM Hi-Performance= Full scale 150 l/min													
<b>Media: He</b>													
		Max. flow meter	Max. flow controller	Connection: G1/4"									
A	9	Full scale	2 l/min	2 l/min	EUR	805.00	915.00	985.00	1'095.00	1'120.00	1'250.00	1'300.00	1'430.00
B	9	Full scale	20 l/min	20 l/min									
C	9	Full scale	200 l/min	200 l/min									
Connection: G1/2"													
D	9	Full scale	300 l/min	300 l/min	1)	1'045.00	1'235.00	1'335.00	1'525.00	1'510.00	1'730.00	1'800.00	2'020.00
<b>Media: H2</b>													
		Max. flow meter	Max. flow controller	Connection: G1/4"									
A	9	Full scale	2 l/min	2 l/min	EUR	825.00	935.00	1'005.00	1'115.00	1'140.00	1'270.00	1'320.00	1'450.00
B	9	Full scale	20 l/min	20 l/min									
C	9	Full scale	200 l/min	200 l/min									
Connection: G1/2"													
D		Full scale	300 l/min	300 l/min	1)	1'050.00	1'160.00	1'230.00	1'340.00	1'490.00	1'620.00	1'670.00	1'800.00
<b>Media: CO2</b>													
		Max. flow meter	Max. flow controller	Connection: G1/4"									
A	9	Full scale	300 ml/min	300 ml/min	EUR	790.00	900.00	970.00	1'080.00	1'105.00	1'235.00	1'285.00	1'415.00
B	9	Full scale	3'000 ml/min	3'000 ml/min									
C	9	Full scale	30 l/min	30 l/min									
Connection: G1/2"													
D	9	Full scale	50 l/min	50 l/min	1)	915.00	1'105.00	1'205.00	1'395.00	1'380.00	1'600.00	1'670.00	1'890.00
D	9	Full scale	100 l/min	100 l/min	1)	1'085.00	1'275.00	1'375.00	1'565.00	1'550.00	1'770.00		
D	9	Full scale	200 l/min	200 l/min	2)	1'250.00	1'450.00			1'880.00	2'170.00		
<b>Media: C3H8</b>													
		Max. flow meter	Max. flow controller	Connection: G1/4"									
A	9	Full scale	120 ml/min	120 ml/min	EUR	790.00	900.00			1'105.00	1'235.00		
B	9	Full scale	1'200 ml/min	1'200 ml/min									
C	9	Full scale	12 l/min	12 l/min									
Connection: G1/2"													
D	9	Full scale	50 l/min	50 l/min	1)	945.00	1'135.00			1'410.00	1'630.00		
<b>Media: CH4</b>													
		Max. flow meter	Max. flow controller	Connection: G1/4"									
A	9	Full scale	600 ml/min	600 ml/min	EUR	795.00	905.00	975.00	1'085.00	1'110.00	1'240.00	1'290.00	1'420.00
B	9	Full scale	6'000 ml/min	6'000 ml/min									
C	9	Full scale	50 l/min	50 l/min									

<b>Valve execution low Δ p with G1/2"</b>										
1) & 2)		Valve type 8.0 for low Δ p version						Surcharge		300.00
<b>Remark</b>										
1) Valve 8.0 is only available with surcharge and when feasibility checked										
2) Valve 8.0 is already included in the price.										

Gasmeter smart series Function  
 Measuring channel Measuring range Version Materials Analog signals Full scale



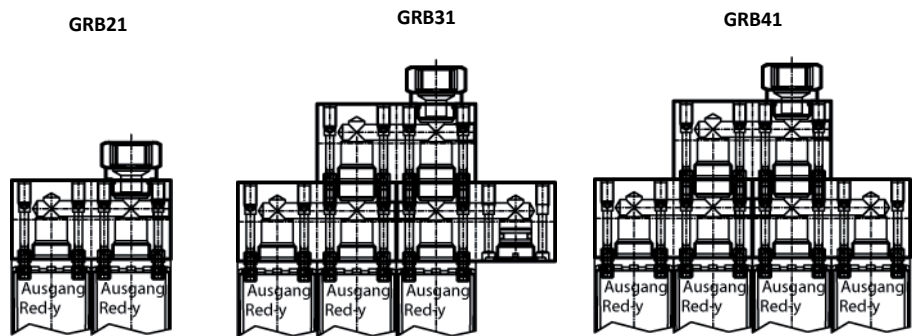
## Gas block systems GZB & GRB for red-y smart series

Gas management block with or without integrated non-return valve

<b>GZB Gas block WITHOUT non-return valve *</b>				
<b>G 1/4" female thread in Alu, FKM incl. seals and connecting nipple G 1/4" at outlet</b>				
<b>327-6051</b>	<b>GZB21</b>	2 Inputs - 1 Output	50 x 25 x 25 (L x W x H)	<b>140.00</b>
<b>327-6052</b>	<b>GZB31</b>	3 Inputs - 1 Output	100 x 50 x 25 (L x W x H)	<b>280.00</b>
<b>327-6053</b>	<b>GZB41</b>	4 Inputs - 1 Output	100 x 50 x 25 (L x W x H)	<b>420.00</b>

<b>GRB Gas block WITH non-return valve *</b>				
<b>G 1/4" female thread in Alu, FKM incl. seals and connecting nipple G 1/4" at outlet</b>				
<b>327-6054</b>	<b>GRB21</b>	2 Inputs - 1 Output	50 x 25 x 25 (L x W x H)	<b>205.00</b>
<b>327-6055</b>	<b>GRB31</b>	3 Inputs - 1 Output	100 x 50 x 25 (L x W x H)	<b>410.00</b>
<b>327-6056</b>	<b>GRB41</b>	4 Inputs - 1 Output	100 x 50 x 25 (L x W x H)	<b>615.00</b>

<b>Single block in stainless steel (straight-way block)</b>				
<b>G 1/4" female thread in stainless steel, FKM incl. seals and connecting nipples G 1/4" at outlet</b>				
<b>327-6150</b>	<b>GZB11</b>	without non-return valve (distance piece)	25 x 25 x 25 (L x W x H)	<b>105.00</b>
<b>327-6154</b>	<b>GRB11</b>	with non-return valve	25 x 25 x 25 (L x W x H)	<b>165.00</b>



<b>Specification of non-return valve</b>	
Flow rate	60 l/min
Pressure drop	1.2 bar
Leak rate	< 1 x 10 <sup>-6</sup> bar l/s He

**\* Remark :**  
Please state on the order, on which channel the instruments are used.

<b>Options</b>		
<b>327-xxxx</b>	Gas block GRZ / GZB more than 4 Inputs	<b>on request</b>
<b>518-1109</b>	G 1/8" female thread for outlet of GRB/GZB delivered seperatly	<b>30.00</b>

<b>Spare parts for gasblock system</b>		
<b>without connecting nipple at exit</b>		
<b>327-6080</b>	<b>Non-return valve set in stainless steel 1.4305</b> 518-1360 Plug-in board 518-1361 Compression spring 633-2004 Seal	<b>80.00</b>
<b>327-6082</b>	<b>Single block (set) in alu</b> incl. body, seal and connector bolts	<b>125.00</b>
<b>327-6083</b>	<b>Connection G 1/4" in stainless steel SL incl. seal</b>	<b>30.00</b>

## Fittings for red-y compact & smart series

### Filter fittings with 50µ filter (compression)

G ¼"			Price per pair
328-1001	Stainless steel, FKM	6 mm	95.00
328-1002	Stainless steel, FKM	¼"	95.00
328-1003	Stainless steel, FKM	12 mm	140.00
328-1004	Stainless steel, FKM	½"	140.00
G ½"			20 units & more
	Stainless steel, FKM	12 mm	on request
	Stainless steel, FKM	½"	on request
Replacement filter			Price for 5 units
328-1401	Filter disc		50.00



**Remark**

This filter prevents contamination of instruments by particles (metal or plastic swarf) which are left back in the gas supply line after installation.

The fittings are delivered in pairs and must be mounted as follows: **WITH** filter at the inlet and **WITHOUT** filter at the outlet.



### Vacuum fitting

			Price per unit
328-1190	VCR Vacuum fitting	¼"	21.00
328-1191	VCR Vacuum fitting	½"	36.00



### Connector assembly, Legris

G ¼"			Price per unit
328-1211	Brass , NBR	6 mm	6.00
328-1212	Brass , NBR	8 mm	6.00
328-1213	Brass , NBR	10 mm	6.00
G ½"			Price per unit
328-1216	Brass , NBR	8 mm	12.00
328-1214	Brass , NBR	12 mm	12.00
328-1215	Brass , NBR	14 mm	12.00



### Olive

			Price per unit
138-1407	PVC, G ¼"	4 mm	5.00
138-1403	PVC, G ¼"	6 mm	5.00
138-1404	PVC, G ¼"	8 mm	5.00



## Options for red-y smart & compact series

		smart	compact
<b>Cables &amp; Modules</b>			
328-2169	PDM-U Power Digital Module USB (1.5m)	95.00	
328-2151	BAM Bus Analog Module (0.1m)	60.00	
328-2152	PSM Power Separator Module	55.00	
328-2153	PAM Power Analog Module <u>Only available whilst stock last</u>	50.00	
328-2139	BTM Bus Terminator Module	40.00	
328-2160	BEC Bus Extension Cable (0.5m)	30.00	
328-2161	BEC Bus Extension Cable (2.0m)	40.00	
328-2162	BEC Bus Extension Cable (5.0m)	50.00	
328-2163	BFC Bus Feeder Cable	50.00	
328-2164	PAC Power Analog Cable (3.0m)	50.00	
328-2165	PDC Digital Cable 3.0m	50.00	
<b>Power Supply</b>			
328-2234	PSD Power Supply Device 24V 0.3A (8W)	45.00	
328-2233	PSD Power Supply Device 24V 2.2A (53W)	140.00	
<b>Software "get red-y" &amp; Functions / Options</b>			
328-4101	Software "get red-y" (CD-Rom) Basic	0.00	0.00
328-4102	Function Datalogger (Logger Functions) for "get red-y" Version 4	200.00	
328-4120	Function Gasmixture (Fix - Master/Slave) for "get red-y" Version 4	200.00	
328-4201	Justier module <b>MANUAL</b> 1st licence for 1 user	2'000.00	
328-4202	Justier module <b>AUTOMATIC</b> 1st licence for 1 user	3'000.00	
328-43xx	Each additional licence (manual or automatic)	500.00	
328-4211	Datalogging module per licence	210.00	
<b>Control- &amp; Readoutsystem PCU1000</b>			
328-3114	Panel mounting 19" rack without cables	1'480.00	
328-3003	Standalone housing with BFC 328-2163 and PSD 328-2233	1'900.00	
<b>Calibration</b>			
328-6120	Calibration report Vögtlin with 20 measuring points standard	65.00	65.00
328-6141	Calibration report Vögtlin with 5 measuring points customer-specific	65.00	65.00
328-6142	Calibration report Vögtlin with 20 measuring points customer-specific	130.00	130.00
	Calibration METAS (CH) 5 points	on request	on request
	Calibration DKD (D) 5 points 6Nm3/h Air	on request	on request
<b>Needle Valve flange mounted (red-y smart)</b>			
328-5311	Needle valve (straight/corner) Brass/Viton (up to 50ln/min) 1/4"	90.00	
328-5312	Needle valve Brass/Viton (up to 400 ln/min) 1/2"	on request	
	Needle valve flange mounted	on request	
<b>Cut-off Valve (electromagnetic)</b>			
328-5811	Cut-off valve at the outlet (< 50ln/min) Alu / Brass incl. body	250.00	
328-5812	Cut-off valve at the outlet (< 50ln/min) Stainless steel	on request	
<b>Labelling</b>			
528-8157	Neutral smart GSM	20.00	
528-8158	Neutral smart GSC	20.00	
537-21xx	Neutral compact		20.00

**Service, repair and spare parts for red-y smart & compact series**

	smart series		compact series				
<b>Basic charge red-y service</b>							
<b>Basic charge meter</b>	GSM		GCM/GCS				
Handling Basic cleaning, small consumables Software update Final check ⇒ with calibration report before service	150.00		120.00				
<b>Basic charge controller</b>	GSC		GCR/GCA				
Handling Basic cleaning, small consumables Software update Final check ⇒ with calibration report before service	190.00		140.00				
<b>Surcharge in addition to basic charge</b>							
<b>Multigas *</b>	GSM/GSC		GCX				
<b>Surcharge per additional gas</b>	smart Standard	smart High Perf.	compact series				
Air, N2, O2	40.00	70.00	-				
other gases/gasmixture	90.00	120.00	-				
* The more expensive gas is considered as the basic curve (basic charge) and the additional gas as multigas.							
<b>Pressure controller</b>	GSP						
Surcharge pressure controller	50.00		-				
<b>Thorough cleaning</b>							
Cleaning with disassembling	85.00		75.00				
<b>Verification &amp; Calibration</b>							
<b>incl. calibration certificate</b>							
	smart Standard		smart High Perf.		compact		
	Type A, B, C	Type D	Type A, B, C	Type D	Type A, B, C	Type D	
	50 In/min	450 In/min	50 In/min	450 In/min	50 In/min	450 In/min	
Air	Air						
Nitrogen	N2	110.00	190.00	150.00	230.00	110.00	190.00
Oxygen	O2						
Argon	Ar						
Helium	He						
Hydrogen	H2	140.00	280.00	180.00	320.00	140.00	280.00
Carbon dioxide	CO2						
Propane	C3H8						
Methane	CH4						
Other gases / gasmixture	on request		on request		on request		

A calibration report is issued automatically before a periodical check/verification.  
We will automatically proceed the repair of the instrument, if service costs are less than 50 % of list price.

**Service, repair and spare parts for red-y smart & compact series**

			smart series	compact series
<b>Spare parts</b>				
Flow divider			on request	on request
Control valve			220.00	100.00
PCB (smart) resp. PCB & Sensor (compact)			145.00	200.00
PCB Profibus			120.00	-
Sensor			240.00	-
Cap smart GSM/GSC			20.00	-
Front compact: Label plastic film			30.00	-
<b>Body for red-y compact</b>				
GCX base body aluminium	1/4"	528-1190	-	170.00
GCX base body aluminium	1/2"	528-1374	-	235.00
GCX base body stainless steel	1/4"	528-1200	-	265.00
GCX base body stainless steel	1/2"	528-1375	-	350.00
<b>Body for red-y smart</b>				
GSM base body aluminium	1/4"	528-1208	150.00	-
GSM base body aluminium	1/2"	528-1213	220.00	-
GSM base body stainless steel	1/4"	528-1209	300.00	-
GSM base body stainless steel	1/2"	528-1214	350.00	-
GSC valve vody aluminium	1/4"	528-1210	120.00	-
GSC valve vody aluminium	1/2"	528-1217	140.00	-
GSC valve vody stainless steel	1/4"	528-1211	240.00	-
GSC valve vody stainless steel	1/2"	528-1218	280.00	-

Do you have any questions about our products?

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Or write us an e-mail:

**info@voegtlin.com**

You will find your local Vögtlin sales partner on the internet:

**www.voegtlin.com**

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