

Transit-Type Ultrasonic Flowmeters

Type: IS210

Price List 2010

Revision 0

Chapter	Type	Description	Page
1	IS210-S	Clamp-on transit-time ultrasonic flowmeter	1...2
2	IS210-I	Insertion transit-time ultrasonic flowmeter	3...4
3	IS210-F	Flanged series flowmeter	5...8
4	IS210-H	Handheld transit-time ultrasonic flowmeter	9...10
5	IS210-P	Postable transit-time ultrasonic flowmeter	11...12
6	IS210-C	Centre-insertion flowmeter	13...14
7	IS210-T	Ultrasonic heat flowmeter	15
8	IS210-AR850	Ultrasonic thickness gauge	16

Currency: EURO

Pricing: Ex works, packing extra

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Price List	Transit Time Flowmeter Type: IS210-S Clamp-on Flowmeter / fixed version	01.01.2010 Rev0 page 1
2010		

Clamp-on transit-time ultrasonic flowmeter type: IS210-S

Code	Description	Price
IS210-S	Clamp-on transit-time ultrasonic flowmeter	1.900,00 €
Approvals		
N	non	- €
Ex	Exd IIB T6 (ATEX Certification)	1.500,00 €
Power Supply		
A	110 V AC	- €
B	220 V AC	- €
E	24 V DC	- €
Output Selection 1		
N	non	- €
1	4...20 mA	- €
2	Pulse Output (Flow rate or totalizer Output)	- €
3	Electric relay	- €
4	RS232	- €
5	RS485	- €
6	Hart+ (4...20 mA)	600,00 €
7	ModBus	500,00 €
8	Data Logger	580,00 €
Output Selection 2		
N	non	- €
1	4...20 mA	- €
2	Pulse Output (Flow rate or totalizer Output)	- €
3	Electric relay	- €
4	RS232	- €
5	RS485	- €
6	Hart+ (4...20 mA)	600,00 €
7	ModBus	500,00 €
8	Data Logger	580,00 €
Output Selection 3		
N	non	- €
1	4...20 mA	- €
2	Pulse Output (Flow rate or totalizer Output)	- €
3	Electric relay	- €
4	RS232	- €
5	RS485	- €
6	Hart+ (4...20 mA)	600,00 €
7	ModBus	500,00 €
8	Data Logger	580,00 €
Product Service Code		
N	Please contact the manufacturer for details	- €

Price List	Transit Time Flowmeter Type: IS210-S Clamp-on Transducers	01.01.2010 Rev0 page 2
2010		

Clamp-on transit-time ultrasonic flowmeter type: IS210-S Transducers

Description		Price
Transducer Type		
S	Small (12...40 mm)	500,00 €
M	Medium (25...1250 mm)	500,00 €
L	Large (1000...4570 mm)	600,00 €
Kxx	Small-pipe round / clamp-on (12...50 mm), xx (see table)	see table
Transducer temperature		
N	-40...121°C	- €
H	-40...250°C (only large pipe range)	480,00 €
Mounting type		
N	common	- €
M	magnetic	100,00 €
Pipeline diameter		
0012	DN12	- €
1200	DN1200	- €
Cable length		
XXX	meters, less than 8 meters free, each meter:	5,00 €

Transducer type Kxx		
pipe (inch)	pipe (mm)	Price
1/2	12...15	550,00 €
3/4	20	550,00 €
1	25	550,00 €
1 1/4	32	650,00 €
1 3/4	40	650,00 €
2	50	650,00 €

Price List	Transit Time Flowmeter Type: IS210-I Insertion type	01.01.2010
2010		Rev0 page 3

Insertion transit-time ultrasonic flowmeter Type IS210-I

Code	Description	Price
IS210-I	Insertion transit-time ultrasonic flowmeter	1.900,00 €
Approvals		
N	non	- €
Ex	Exd IIB T6 (ATEX Certification)	1.500,00 €
Power Supply		
A	110 V AC	- €
B	220 V AC	- €
E	24 V DC	- €
Output Selection 1		
N	non	- €
1	4...20 mA	- €
2	Pulse Output (Flow rate or totalizer Output)	- €
3	Electric relay	- €
4	RS232	- €
5	RS485	- €
6	Hart+ (4...20 mA)	600,00 €
7	ModBus	500,00 €
8	Data Logger	580,00 €
Output Selection 2		
N	non	- €
1	4...20 mA	- €
2	Pulse Output (Flow rate or totalizer Output)	- €
3	Electric relay	- €
4	RS232	- €
5	RS485	- €
6	Hart+ (4...20 mA)	600,00 €
7	ModBus	500,00 €
8	Data Logger	580,00 €
Output Selection 3		
N	non	- €
1	4...20 mA	- €
2	Pulse Output (Flow rate or totalizer Output)	- €
3	Electric relay	- €
4	RS232	- €
5	RS485	- €
6	Hart+ (4...20 mA)	600,00 €
7	ModBus	500,00 €
8	Data Logger	580,00 €
Product Service Code		
N	Please contact the manufacturer for details	- €

Price List	Transit Time Flowmeter Type: IS210-I Transducers	01.01.2010
2010		Rev0 page 4

Insertion transit-time ultrasonic flowmeter Type IS210-I Transducers

Description		Price
Transducer Type		
1	Weldable pipe (CS, SS etc.)	700,00 €
2	Cast iron pipe	700,00 €
3	Cement pipe	700,00 €
Transducer temperature		
N	-40...121°C	- €
H	-40...150°C (only large pipe range)	200,00 €
Pipeline diameter		
0065	DN65	- €
4500	DN4500	- €
Cable length		
XXX	meters, less than 8 meters free, each meter:	5,00 €
Underwater application		
0	No	- €
1	Yes	- €

Price List	Transit Time Flowmeter Type: IS210-F Flanged version	01.01.2010 Rev0 page 5
2010		

Flanged series flowmeter type: IS210-F

Code	Description	Price
IS210-F	Flanged series flowmeter	1.900,00 €
	Approvals	
N	non	- €
Ex	Exd IIB T6 (ATEX Certification)	1.500,00 €
	Power Supply	
A	110 V AC	- €
B	220 V AC	- €
E	24 V DC	- €
	Output Selection 1	
N	non	- €
1	4...20 mA	- €
2	Pulse Output (Flow rate or totalizer Output)	- €
3	Electric relay	- €
4	RS232	- €
5	RS485	- €
6	Hart+ (4...20 mA)	600,00 €
7	ModBus	500,00 €
8	Data Logger	580,00 €
	Output Selection 2	
N	non	- €
1	4...20 mA	- €
2	Pulse Output (Flow rate or totalizer Output)	- €
3	Electric relay	- €
4	RS232	- €
5	RS485	- €
6	Hart+ (4...20 mA)	600,00 €
7	ModBus	500,00 €
8	Data Logger	580,00 €
	Output Selection 3	
N	non	- €
1	4...20 mA	- €
2	Pulse Output (Flow rate or totalizer Output)	- €
3	Electric relay	- €
4	RS232	- €
5	RS485	- €
6	Hart+ (4...20 mA)	600,00 €
7	ModBus	500,00 €
8	Data Logger	580,00 €
	Product Service Code	
N	Please contact the manufacturer for details	- €

Price List	Transit Time Flowmeter Type: IS210-F Transducers	01.01.2010 Rev0 page 6
2010		

Flanged series flowmeter type: IS210-F Transducers

Description		Price
Transducer Type		
0	Common flanged type	see table 2
1	S-series small flanged type	see table 3
2	II series flanged type	see table 4
3	very low flow rate flanged type	see table 5
Pressure		
B	1,0 MPa	- €
C	1,6 MPa	- €
D	high pressure - please contact manufacturer	- €
Pipeline material		
0	Carbon Steel	- €
1	Stainless Steel	- €
Pipeline diameter		
0012	DN12	- €
1200	DN1200	- €
Cable length		
XXX	meters, less than 8 meters free, each meter:	5,00 €

Please note: Very low flow range type transducer can measure flow rates down to 0,003 m/s.

Price List 2010	Transit Time Flowmeter Type: IS210-F Transducers	01.01.2010 Rev0 page 7
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Flanged series flowmeter type: IS210-F
Transducers

Table 1: Common flanged type Transducers at 1,0 Mpa		
Pipe (mm)	Carbon Steel	Stainless Steel
65	800,00 €	1.050,00 €
80	850,00 €	1.100,00 €
100	900,00 €	1.200,00 €
125	1.000,00 €	1.250,00 €
150	1.100,00 €	1.300,00 €
200	1.200,00 €	1.450,00 €
250	1.300,00 €	1.550,00 €
300	1.500,00 €	1.750,00 €
350	1.600,00 €	1.850,00 €
400	1.700,00 €	2.000,00 €
500	1.900,00 €	2.300,00 €
600	2.400,00 €	2.900,00 €
700	2.700,00 €	3.100,00 €
800	3.100,00 €	3.500,00 €
900	3.500,00 €	3.900,00 €
1000	3.700,00 €	4.300,00 €
1100	3.900,00 €	4.600,00 €
1200	4.100,00 €	4.800,00 €
1300	4.300,00 €	5.200,00 €
1400	4.500,00 €	5.400,00 €
1500	4.700,00 €	5.700,00 €
1600	5.000,00 €	6.000,00 €
1700	5.300,00 €	6.300,00 €
1800	5.600,00 €	6.700,00 €
1900	5.900,00 €	7.000,00 €
2000	6.200,00 €	7.400,00 €

Price adder for 1,6 Mpa: 10 %

Price adder for high pressure: please contact manufacturer

Price List	Transit Time Flowmeter Type: IS210-F Transducers	01.01.2010
2010		Rev0 page 8

Flanged series flowmeter type: IS210-F
Transducers

Table 3 S-series small flanged type Transducers		
Pipe (mm)	Carbon Steel	Stainless Steel
20	800,00 €	900,00 €
25	800,00 €	900,00 €
32	800,00 €	900,00 €
40	800,00 €	900,00 €
50	900,00 €	1.000,00 €
65	1.000,00 €	1.150,00 €

Table 4 II series flanged type		
Pipe (mm)	Carbon Steel	Stainless Steel
20	800,00 €	900,00 €
25	800,00 €	900,00 €
32	800,00 €	900,00 €
40	800,00 €	900,00 €
50	900,00 €	1.000,00 €
65	1.000,00 €	1.150,00 €

Table 5 Very low rate flanged type Transducers		
Pipe (inch)	Pipe (mm)	Price
1/2	12...15	750,00 €
3/4	20	750,00 €
1	25	750,00 €
1 1/4	32	850,00 €
1 3/4	40	850,00 €
2	50	850,00 €

Price List	Transit Time Flowmeter Type: IS210-H Handheld version	01.01.2010
2010		Rev0 page 9

Handheld transit time flowmeter type: IS210-H

Code	Description	Price
IS210-H	Handheld transit time flowmeter	2.300,00 €
	Output selection 1	
N	non	
1	OCT Pulse output (Flow rate or totalizer)	
2	RS232	
3	Data Logger	
	Output selection 2	
N	non	
1	OCT Pulse output (Flow rate or totalizer)	
2	RS232	
3	Data Logger	
	Output selection 3	
N	non	
1	OCT Pulse output (Flow rate or totalizer)	
2	RS232	
3	Data Logger	
	Product service code	
N	Please contact the manufacturer for details	

Price List	Transit Time Flowmeter Type: IS210-H Transducers	01.01.2010
2010		Rev0 page 10

Handheld transit time flowmeter type: IS210-H

Description		Price
Transducer Type		
S	Small (12...40 mm)	500,00 €
M	Medium (25...1250 mm)	500,00 €
L	Large (1000...4570 mm)	600,00 €
Kxx	Small-pipe round / clamp-on (12...50 mm), xx (see table)	see table
Transducer temperature		
N	-40...121°C	- €
H	-40...250°C (only large pipe range)	480,00 €
Mounting type		
N	common	- €
M	magnetic	100,00 €
Pipeline diameter		
0012	DN12	- €
1200	DN1200	- €
Cable length		
S	Flexible cable, 4 meters	- €
L	Flexible cable, 8 meters	10,00 €

Transducer type Kxx		
pipe (inch)	pipe (mm)	Price
1/2	12...15	550,00 €
3/4	20	550,00 €
1	25	550,00 €
1 1/4	32	650,00 €
1 3/4	40	650,00 €
2	50	650,00 €

Price List	Transit Time Flowmeter	01.01.2010
2010	Type: IS210-P	Rev0
	Clamp-on Flowmeter / portable version	page 11

Portable clamp-on transit-time ultrasonic flowmeter type: IS210-P

Code	Description	Price
IS210-P	Portable clamp-on transit-time ultrasonic flowmeter	3.500,00 €
	Output selection 1	
N	non	- €
1	4...20 mA	- €
2	OCT Pulse output (Instant and total output	- €
3	RS232	- €
4	Data logger	580,00 €
	Output selection 2	
N	non	- €
1	4...20 mA	- €
2	OCT Pulse output (Instant and total output	- €
3	RS232	- €
4	Data logger	580,00 €
	Output selection 3	
N	non	- €
1	4...20 mA	- €
2	OCT Pulse output (Instant and total output	- €
3	RS232	- €
4	Data logger	580,00 €
	Product service code	
N	Please contact the manufacturer for details	- €

Price List 2010	Transit Time Flowmeter Type: IS210-P Transducers	01.01.2010 Rev0 page 12
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Portable clamp-on transit-time ultrasonic flowmeter type: IS210-P

Description		Price
Transducer Type		
S	Small (12...40 mm)	500,00 €
M	Medium (25...1250 mm)	500,00 €
L	Large (1000...4570 mm)	600,00 €
Kxx	Small-pipe round / clamp-on (12...50 mm), xx (see table)	see table
Transducer temperature		
N	-40...121°C	- €
H	-40...250°C (only large pipe range)	480,00 €
Cable Length		
S	Flexible cable, 4 meters	- €
L	Flexible cable, 8 meters	10,00 €

Transducer type Kxx		
pipe (inch)	pipe (mm)	Price
1/2	12...15	550,00 €
3/4	20	550,00 €
1	25	550,00 €
1 1/4	32	650,00 €
1 3/4	40	650,00 €
2	50	650,00 €

Price List	Transit Time Flowmeter Type: IS210-C Centre insertion type	01.01.2010 Rev0 page 13
2010		

Centre insertion flowmeter type: IS210-C

Code	Description	Price
IS210-S	Clamp-on transit-time ultrasonic flowmeter	1.900,00 €
Approvals		
N	non	- €
Ex	Exd IIB T6 (ATEX Certification)	1.200,00 €
Power Supply		
A	110 V AC	- €
B	220 V AC	- €
E	24 V DC	- €
Output Selection 1		
N	non	- €
1	4...20 mA	- €
2	Pulse Output (Flow rate or totalizer Output)	- €
3	Electric relay	- €
4	RS232	- €
5	RS485	- €
6	Hart+ (4...20 mA)	600,00 €
7	ModBus	700,00 €
8	Data Logger	580,00 €
Output Selection 2		
N	non	- €
1	4...20 mA	- €
2	Pulse Output (Flow rate or totalizer Output)	- €
3	Electric relay	- €
4	RS232	- €
5	RS485	- €
6	Hart+ (4...20 mA)	600,00 €
7	ModBus	700,00 €
8	Data Logger	580,00 €
Output Selection 3		
N	non	- €
1	4...20 mA	- €
2	Pulse Output (Flow rate or totalizer Output)	- €
3	Electric relay	- €
4	RS232	- €
5	RS485	- €
6	Hart+ (4...20 mA)	600,00 €
7	ModBus	700,00 €
8	Data Logger	580,00 €
Product Service Code		
N	Please contact the manufacturer for details	- €

Price List	Transit Time Flowmeter Type: IS210-C Transducer	01.01.2010 Rev0 page 14
2010		

Centre insertion flowmeter type: IS210-C
Transducers

Description		Price
Transducer Type		
1	Weldable pipe (CS, SS etc.)	see below
2	Cast iron pipe	see below
3	Cement pipe	add 20 %
Transducer temperature		
N	-40...121°C	- €
H	-40...150°C (only large pipe range)	200,00 €
Probe length acc. to pipeline diameter		
A	under 500 mm	1.200,00 €
B	500...800 mm	1.400,00 €
C	900...1200 mm	1.600,00 €
D	1300...1600 mm	1.800,00 €
E	1700...2200 mm	2.000,00 €
F	2300...2800 mm	2.300,00 €
G	2900...4500 mm	2.600,00 €
Cable length		
XXX	meters, less than 8 meters free, each meter:	5,00 €
Underwater application		
0	No	- €
1	Yes	- €

Price List	Ultrasonic Heat Flowmeter Type: IS210-T	01.01.2010
2010		Rev0 page 15

Ultrasonic Heat Flowmeter type IS210-T

Code	Description	Price
IS210-T	Ultrasonic heat flow meter	1.900,00 €
	Power supply	
A	110 VAC	- €
B	220 VAC	- €
E	24 VDC	- €
	Transducer type	
B	Clamp-on / for prices please refer to IS210-S	- €
C	Insertion / for prices please refer to IS210-I	- €
D	Flanged / for prices please refer to IS210-F	- €
	Output selection 1	
N	non	- €
1	4...20 mA	- €
2	Pulse Output (Flow rate or Totalizer)	- €
3	Electrical relay	- €
4	RS232	- €
5	RS485	- €
6	Hart+(4...20 mA)	600,00 €
7	Modbus	500,00 €
8	Data logger	580,00 €
	Output selection 2	
N	non	- €
1	4...20 mA	- €
2	Pulse Output (Flow rate or Totalizer)	- €
3	Electrical relay	- €
4	RS232	- €
5	RS485	- €
6	Hart+(4...20 mA)	600,00 €
7	Modbus	500,00 €
8	Data logger	580,00 €
	Output selection 3	
N	non	- €
1	4...20 mA	- €
2	Pulse Output (Flow rate or Totalizer)	- €
3	Electrical relay	- €
4	RS232	- €
5	RS485	- €
6	Hart+(4...20 mA)	600,00 €
7	Modbus	500,00 €
8	Data logger	580,00 €
	Pipeline range	
0050	DN50	- €
1200	DN1200	- €
	Cable lenght	
006	6 meters	- €
030	30 meters, each meter:	5,00 €
The max. length can reach 300 m, please contact manufacturer.		
	Temperature input type	
Use of direct thermal resistance: please contact manufacturer.		
C1	Pt100 (-40...150 °C) Two-wire system temperature transmitter input.	500,00 €
C2	Pt100 (-40...250 °C) Two-wire system temperature transmitter input.	700,00 €

Price List 2010	Ultrasonic Wall Thickness Gauge Type: IS210-T	01.01.2010 Rev0 page 16
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Ultrasonic Wall Thickness Gauge type IS210-T

Code	Description	Price
IS210-AR850	Ultrasonic Thickness Gauge	640,00 €
IS210-AR850A	Ultrasonic Thickness Gauge / high temperature version (see table)	890,00 €

Table: Ultrasonic Thickness Gauge type: IS210-AR850 & AR850A		
Technical Information	IS210-AR850	IS210-AR850A
Measuring range	1,2...225,0 mm (Steel)	1,2...225,0 mm (Steel)
Accuracy	±(1%±0,1) mm	±(1%±0,1) mm
Pipe measuring lower limit	20*3 mm (Steel)	20*3 mm (Steel)
Sound velocity range	1000...9999 m/s	1000...9999 m/s
Working frequency	5 mHz	5 mHz
Working temperature range	0...45 °C	0...300 °C
Automatic zero adjustment	✓	✓
Data store function	✓	✓
Auto shut off	✓	✓
Low battery indication	3 V ± 0,2 V	3 V ± 0,2 V
Power	3*AAA NiCd or Ni-Hm Battery	3*1,5 V Alkaline Battery