



Vortex Flow sensor

Huba Control



Flow sensor for liquid media Type 210

The flow sensor type 210 is based on the Kármán vortex trail principle. In comparison to the OEM flow sensor (type 200), the type 210 is available with enhanced power supply and output signals and is available with and without temperature measurement

With no moving parts the flow sensor is not sensitive to debris, has marginal pressure loss and high accuracy.

Flow range
0.5 ... 150 l/min

Nominal diameters
DN 6 / 8 / 10 / 15 / 20 / 25

Temperature measurement
-40 ... +125 °C

- + Flow measuring with voltage, current, pulse or frequency output
- + Temperature non-sensitive measuring principle
- + Excellent media resistance (measuring element not in contact with the media)
- + Wide application temperature range
- + Marginal loss of pressure
- + Measuring element not sensitive to debris
- + Direct temperature measurement in the medium
- + Drinking water approval KTW, W270, ACS, WRAS

Technical overview

Flow measurement

Measuring principle	Vortex	Piezoelectric sensor element
Measuring range	0.5 ... 150 l/min	
Nominal diameters	DN 6 / 8 / 10 / 15 / 20 / 25	
Accuracy at < 50% fs (water)	< 1% fs	
Accuracy at > 50% fs (water)	< 2% measuring value	
Response time	Immediately. Therefore suitable for spigot use.	Frequency output (unfiltered)
		Frequency output (filtered) Analogue output
		Signal delay < 100 ms Response time < 5 ms Signal delay < 2 s Response time < 500 ms

Operating conditions

Medium	Suitable for heating circuit water with the usual additives Drinking water	Other medium on request
Temperature		Media < +125 °C Ambient -15 ... +85 °C Ambient (2x 4 ... 20 mA) -15 ... +65 °C Storage -30 ... +85 °C
Max. pressure and medium temperature		(for lifetime) (for lifetime) (for 600 hours) (for 2 hours) (max. test pressure)
Cavitation	The following equation is valid to prevent cavitation:	$P_{abs\ outlet} / P_{difference} > 5.5$

Materials in contact with medium (FDA-conform)

Sensor paddle	ETFE
Case with damming body	PA6T/6I (40% GF)
Sealing material	EPDM (perox.) FPM

Electrical connection

Connector M12x1	Protection standard IP 65
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Weight

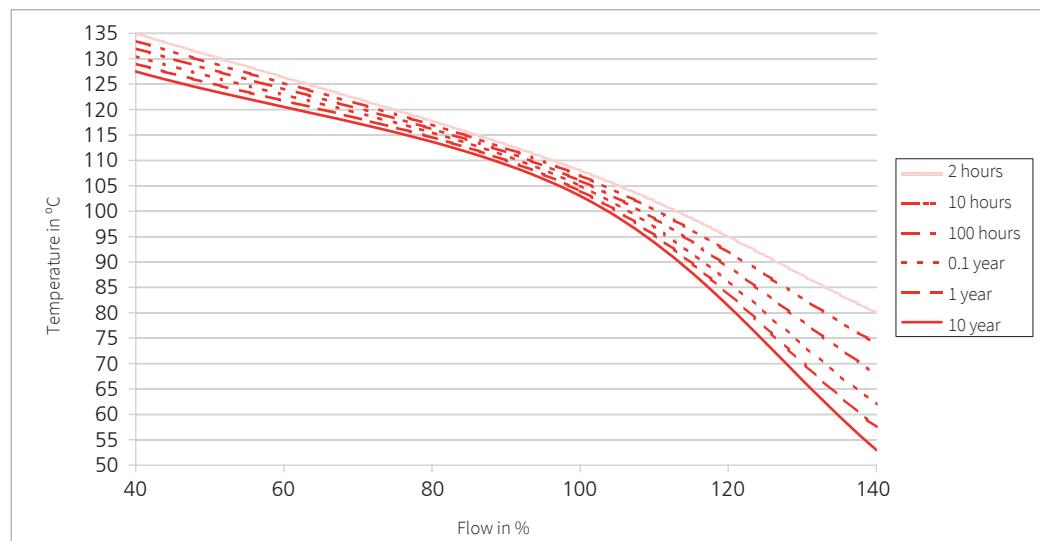
DN 6 / 8	~ 47 g
DN 10	~ 57 g
DN 15	~ 68 g
DN 20	~ 92 g
DN 25	~ 100 g

Test / Admissions

Electromagnetic compatibility	CE conformity acc. EN 61326-2-3
Drinking water approval	WRAS Plastic parts with KTW and W270 approval ACS

Packaging (multiple packaging)	Connection copper tube	Outside thread K	Outside thread G
DN 6	-	Blister 30x	Blister 30x
DN 8 / 10	Blister 30x	Blister 30x	Blister 30x
DN 15	Blister 30x	Blister 30x	Blister 20x
DN 20	Blister 20x	Blister 20x	Blister 15x
DN 25	-	Blister 20x	Blister 15x

Minimum life span on high flow rate and high temperature



Analogue output - Electrical overview

Temperature measurement (≥ 8 DN)

Measuring principle	Resistance	PT1000
Measuring range		-40 ... +125 °C
PT1000	Accuracy	± 0.3 K $\pm 0.3 \text{ K} \pm 0.005 \cdot \Delta T$
	Measuring range	-25 ... +125 °C
0 ... 10 V	Accuracy	$\pm 0.5 \text{ K} \pm 0.005 \cdot \Delta T$ $T(\text{°C}) = \frac{+150 \text{ °C}}{10 \text{ V}} \cdot U_{\text{OUT},T} - 25 \text{ °C}$
	Calculation temperature	
4 ... 20 mA	Measuring range	-25 ... +125 °C
	Accuracy	$\pm 0.5 \text{ K} \pm 0.005 \cdot \Delta T$ $T(\text{°C}) = \frac{150 \text{ °C} - 4 \text{ mA}}{16 \text{ mA}} \cdot I_{\text{OUT},T} - 25 \text{ °C}$
	Calculation temperature	
Electronic		
Power supply	11.5 ... 33 VDC	8 ... 33 VDC
Output flow (Q)	anaogue signal	4 ... 20 mA
Output temperature (T)	signal	-
Load againt GND or IN	$< 6 \text{ mA} / < 100 \text{ nF}$ ¹⁾	$< (U_{\text{IN}} - 8 \text{ V}) / 20 \text{ mA}$
Current consumption load free (I_{IN})	$< 5 \text{ mA}$	-
Electrical reliability	Short circuit, reverse voltage and external voltage protected within the admissible supply voltage.	

Analogue output - Nominal diameters dependent variables

DN	Measuring range [l/min]	Flow range [m/s]	Pressure drop ^{2),3)}	$K_u \left[\frac{\text{L}}{\text{V} * \text{min}} \right]$	$K_i \left[\frac{\text{L}}{\text{mA} * \text{min}} \right]$
6	0.5 ... 10	0.074 ... 1.474	$240.00 * Q^2$	1.0	0.625
8	0.9 ... 15	0.133 ... 2.210	$85.00 * Q^2$	1.5	0.938
10	1.8 ... 32	0.265 ... 4.716	$22.50 * Q^2$	3.2	2.000
10	2.0 ... 40	0.295 ... 5.895	$22.50 * Q^2$	4.0	2.500
15	3.5 ... 50	0.290 ... 4.145	$6.70 * Q^2$	5.0	3.125
20	5.0 ... 85	0.265 ... 4.509	$2.50 * Q^2$	8.5	5.313
25	9.0 ... 150	0.283 ... 4.709	$0.92 * Q^2$	15.0	9.375

Legend

Q_v	Volume flow rate	[l/min]
K_u	Coefficient voltage output	[l/min] / V
K_i	Coefficient current output	[l/min] / mA
U_{OUT}	Voltage	[V]
I_{OUT}	Current	[mA]

Characteristic line formula current output
 $Q_v = K_i * (I_{\text{OUT}} - 4 \text{ mA})$

Characteristic line formula voltage output
 $Q_v = K_u * U_{\text{OUT}}$

Analogue output - Order code selection table

		1	2	3	4	5	6	7
	210.	X	X	X	X	X	X	X
Version	Flow	9			3,4	4		
	Flow and temperature (PT1000)	8			3,4	5		
	Flow and temperature (2x 0 ... 10 V)	6			3	5		
	Flow and temperature (2x 4 ... 20 mA)	5			5	5		
Nominal diameters and Flow range	DN 6 0.5 ... 10 l/min.	9	0	6				K,G
	DN 8 0.9 ... 15 l/min.	0	8					
	DN 10 1.8 ... 32 l/min.	1	0					
	DN 10 2.0 ... 40 l/min.	1	1					
	DN 15 3.5 ... 50 l/min.	1	5					
	DN 20 5.0 ... 85 l/min.	2	0					
	DN 25 9.0 ... 150 l/min.	2	5					K,G
Output / power supply	Analog output 0 ... 10 V	11.5 ... 33 VDC	9,8,6		3			
	Analog output 4 ... 20 mA	8 ... 33 VDC	9,8		4			
	Analog output 4 ... 20 mA	10 ... 33 VDC	5		5			
Electrical connection	Connector M12x1	3-pole (with condensation protection)	9		3,4	4		
		5-pole (with condensation protection)	8,6,5		5			
Sealing material	EPDM	Ethylene propylene rubber (peroxidically cross-linked)					1	
	FPM ⁴⁾	Fluoro elastomer					2	
Tube connection	connection copper tube (max. DN 20)							N
	Plastic PA6T / 6I	outside thread K (see dimension diagram)					K	
		outside thread G (see dimension diagram)					G	

¹⁾ against GND only

²⁾ incl. 3xDi inlet and outlet side

³⁾ Pv in Pa; Q in l/min

⁴⁾ No drinking water approval

Frequency output (filtered) and pulse output - Electrical overview

Temperature measurement (> 8 DN)

Measuring principle	Resistance	PT1000 class B DIN EN 60751
	Measuring range	-40 ... +125 °C
PT1000	Accuracy	@ T = 0 °C @ T ≠ 0 °C
		± 0.3 K ± 0.3 K ± 0.005 * ΔT
Temperature influences	Self-heating at temperature sensor Conduction resistance to connector	1 K/mW 0.8 Ω

Electronic

Power Supply	4.75 ... 33 VDC
Output flow (Q)	< 0.5 ... > U _{IN} - 0.5 V
Output temperature (T)	Resistant signal
Load against GND or IN	PT1000 class B DIN EN 60751
Current consumption load free (I _{IN})	> 1 kΩ / < 10 kΩ
Electrical reliability	< 3 mA
	Short circuit, reverse voltage and external voltage protected within the admissible supply voltage.

Frequency output (filtered) and pulse output - Nominal diameters dependent variables

DN	Measuring range [l/min]	Flow range [m/s]	Pressure drop ^{1),2)}	K _{ff} [(l/min) / Hz] at 0 ... 1000 Hz	Quantity per pulse K _i [ml] (pulse)	Pulse (pulse output) [1/l]
6	0.5 ... 10	0.074 ... 1.474	240.00 * Q ²	0.01	0.20	5000
8	0.9 ... 15	0.133 ... 2.210	85.00 * Q ²	0.015	0.20	5000
10	1.8 ... 32	0.265 ... 4.716	22.50 * Q ²	0.032	0.50	2000
10	2.0 ... 40	0.295 ... 5.895	22.50 * Q ²	0.04	0.50	2000
15	3.5 ... 50	0.290 ... 4.145	6.70 * Q ²	0.05	1.00	1000
20	5.0 ... 85	0.265 ... 4.509	2.50 * Q ²	0.085	1.00	1000
25	9.0 ... 150	0.283 ... 4.709	0.92 * Q ²	0.15	1.25	800

Characteristic line formula frequency output filtered (0 ... 1000 Hz, other frequency on request)

$$Q_V = K_{ff} * f$$

Pulse

$$l/min = \frac{pulse}{s} * K_i * \frac{60}{1000}$$

Legend

Q _V	Volume flow rate	[l/min]
K _{ff}	Coefficient frequency output filtered	[(l/min) / f]
f	Frequency	[Hz]

Frequency output (filtered) and pulse output - Order code selection table

210. X X X X X X X X

Version	Flow	9	4	
	Flow and temperature (PT1000)	8	5	
	DN 6 0.5 ... 10 l/min.	9 0	6	K,G
	DN 8 0.9 ... 15 l/min.	0	8	
Nominal diameters and flow range	DN 10 1.8 ... 32 l/min.	1	0	
	DN 10 2.0 ... 40 l/min.	1	1	
	DN 15 3.5 ... 50 l/min.	1	5	
	DN 20 5.0 ... 85 l/min.	2	0	
	DN 25 9.0 ... 150 l/min.	2	5	K,G
Output / power supply	Frequency output (filtered) 4.75 ... 33 VDC		6	
	Pulse output 4.75 ... 33 VDC		7	
Electrical connection	Connector M12x1 3-pole (with condensation protection)	9	4	
	5-pole (with condensation protection)	8	5	
Sealing material	EPDM Ethylene propylene rubber (peroxidically cross-linked)		1	
	FPM ³⁾ Fluoro elastomer		2	
Tube connection	Plastic PA6T / 61 connection copper tube (max. DN 20) outside thread K (see dimension diagram) outside thread G (see dimension diagram)			N K G

¹⁾ incl. 3xDi inlet and outlet side

²⁾ Pv in Pa; Q in l/min

³⁾ No drinking water approval

Frequency output (unfiltered) - Electrical overview

Temperature measurement (> 8 DN)

Measuring principle	Resistance	PT1000 class B DIN EN 60751
Measuring range		-40 ... +125 °C
PT1000	Accuracy	@ T = 0 °C @ T ≠ 0 °C
Temperature influences	Self-heating at temperature sensor Conduction resistance to connector	± 0.3 K ± 0.3 K ± 0.005 * ΔT 1 K/mW 0.8 Ω

Electronic

Power Supply	4.75 ... 33 VDC
Output flow (Q)	< 0.5 ... > U _{IN} - 0.5 V
Output temperature (T)	Resistant signal
Load against GND or IN	PT1000 class B DIN EN 60751
Current consumption load free (I _{IN})	< 1 mA / < 100 nF
Electrical reliability	< 2 mA
	Short circuit, reverse voltage and external voltage protected within the admissible supply voltage.

Frequency output (unfiltered) - Nominal diameters dependent variables

DN	Tube connection	Measuring range [l/min]	Flow range [m/s]	Pressure drop ^{1),2)}	Quantity per pulse @50% fs [ml]	Frequency range unfiltered [Hz]	Q ₀ [l/min]	K _f [(l/min) / f]
6	K	0.5 ... 10	0.074 ... 1.474	240.00 * Q ²	0.386	27 ... 426	-0.14	0.0238
	G							
8	K	0.9 ... 15	0.133 ... 2.210	85.00 * Q ²	0.628	30 ... 384	-0.3	0.0398
	G				0.631	30 ... 388		0.0394
	N				0.614	31 ... 399		0.0383
10	K	1.8 ... 32	0.265 ... 4.716	22.50 * Q ²	1.399	24 ... 379	-0.2	0.0850
	G				1.370	24 ... 387		0.0832
	N				1.384	24 ... 383		0.0841
10	K	2.0 ... 40	0.295 ... 5.895	22.50 * Q ²	1.403	26 ... 473	-0.2	0.0850
	G				1.373	26 ... 483		0.0832
	N				1.388	26 ... 478		0.0841
15	K	3.5 ... 50	0.290 ... 4.145	6.70 * Q ²	3.047	20 ... 272	-0.2	0.1843
	G				3.016	20 ... 275		0.1824
	N				3.077	20 ... 270		0.1861
20	K	5.0 ... 85	0.265 ... 4.509	2.50 * Q ²	6.213	14 ... 227	-0.3	0.3754
	G				6.125	14 ... 230		0.3701
	N				6.208	14 ... 227		0.3751
25	K	9.0 ... 150	0.283 ... 4.709	0.92 * Q ²	12.412	12 ... 201	-0.2	0.7467
	G				12.251	12 ... 204		0.7370

Characteristic line formula frequency output unfiltered

$$Q_v = K_f * f + Q_0$$

Formula quantity per pulse [litres/pulse]

$$\text{Quantity}_{\text{Pulse}} = \frac{K_f * Q_v}{60 * (Q_v - Q_0)}$$

Legend

Q _v	Volume flow rate	[l/min]
Q ₀	Axis intercept	[l/min]
K _f	Coefficient frequency output	[((l/min) / f)]
f	Frequency	[Hz]
Quantity	Quantity per pulse	litres
Pulse		pulse

Frequency output (unfiltered) - Order code selection table

210. X X X X X X X X X

Version	Flow	9		4	
	Flow and temperature (PT1000)	8		5	
Nominal diameters and flow range	DN 6	0.5 ... 10 l/min.	9	0	6
	DN 8	0.9 ... 15 l/min.	0	8	
	DN 10	1.8 ... 32 l/min.	1	0	
	DN 10	2.0 ... 40 l/min.	1	1	
	DN 15	3.5 ... 50 l/min.	1	5	
	DN 20	5.0 ... 85 l/min.	2	0	
Output / power supply	Frequency output (unfiltered)	4.75 ... 33 VDC		2	
	Connector M12x1	3-pole (with condensation protection)	9		4
Sealing material	EPDM	Ethylene propylene rubber (peroxidically cross-linked)	8		5
	FPM ³⁾	Fluoro elastomer		1	
Tube connection		connection copper tube (max. DN 20)		2	
	Plastic PA6T / 6I	outside thread K (see dimension diagram)		N	
		outside thread G (see dimension diagram)		K	
				G	

¹⁾ incl. 3xDi inlet and outlet side

²⁾ Pv in Pa; Q in l/min

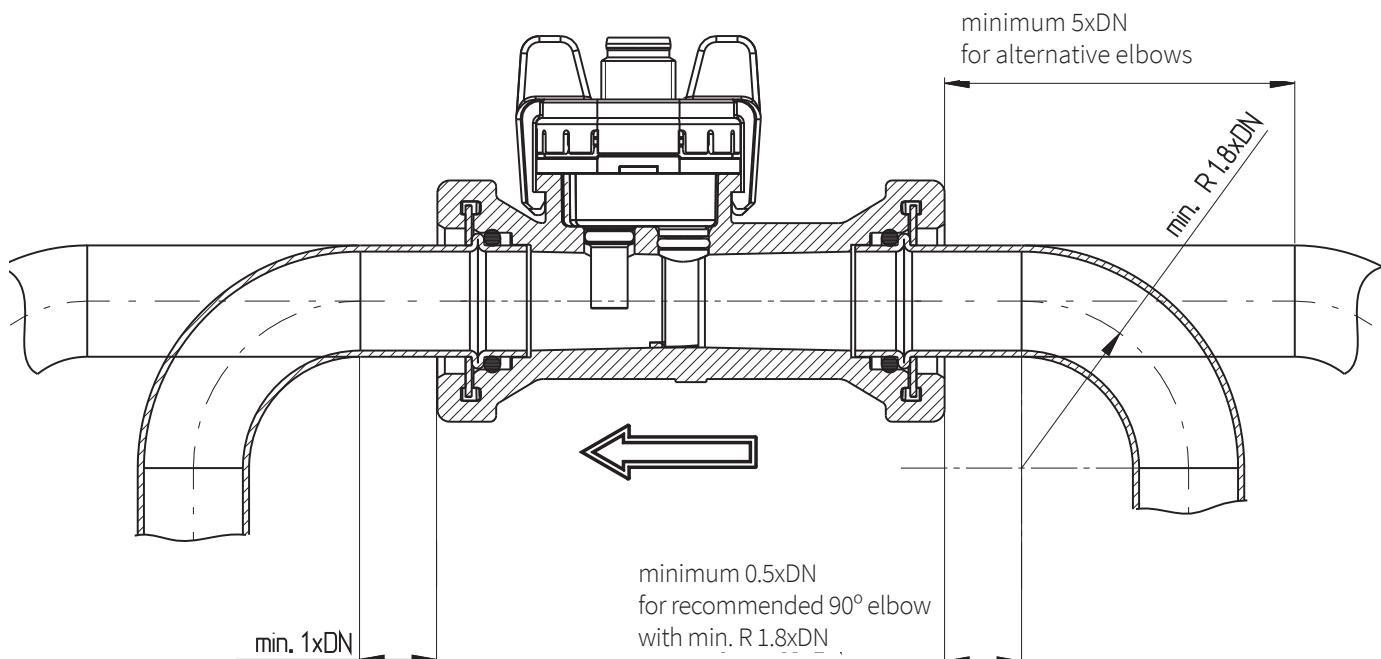
³⁾ No drinking water approval

Accessories (supplied loose)	Order number	
Connection kit ¹⁾ DN 8, 10 with copper tube	113775	
Connection kit ¹⁾ DN 8, 10 with adapter Rp $\frac{3}{8}$ Stainless steel 1.4305/AISI 303	113776	
Connection kit ¹⁾ DN 15 with copper tube	113777	
Connection kit ¹⁾ DN 15 with adapter Rp $\frac{1}{2}$ Stainless steel 1.4305/AISI 303	113778	
Connection kit ¹⁾ DN 20 with copper tube	113779	
Connection kit ¹⁾ DN 20 with adapter Rp $\frac{3}{4}$ Stainless steel 1.4305/AISI 303	113780	
Straight-wire box for connector M12x1 with cable	3-pole 200 cm	114605
Corner-wire box for connector M12x1 with cable	3-pole 200 cm	114604
Straight-wire box for connector M12x1 with cable	5-pole 200 cm (with temperature)	114564
Corner-wire box for connector M12x1 with cable	5-pole 200 cm (with temperature)	114563
Straight-wire box for connector M12x1 screwing terminal	5-pole	115024
Clip for DN 8, 10		112116
Clip for DN 15		110941
Clip for DN 20		112122
O-Ring for DN 8, DN 10	EPDM $\varnothing 13.95 \times 2.62$	Copper tube and adapter 112124
O-Ring for DN 15	EPDM $\varnothing 17.86 \times 2.62$	Copper tube and adapter 112265
O-Ring for DN 20	EPDM $\varnothing 21.89 \times 2.62$	Copper tube and adapter 112723
O-Ring for DN 25	EPDM $\varnothing 31 \times 3$	(as a replacement, already assembled) 112792
Connection copper tube for DN 8, 10	L=150 mm	112121
Connection copper tube for DN 15	L=150 mm	112211
Connection copper tube for DN 20	L=150 mm	112306
Adapter for DN 8 und DN 10	Rp $\frac{3}{8}$	Stainless steel 1.4305/AISI 303 112655
Adapter for DN 15	Rp $\frac{1}{2}$	Stainless steel 1.4305/AISI 303 112660
Adapter for DN 20	Rp $\frac{3}{4}$	Stainless steel 1.4305/AISI 303 112661

Tube mounting instructions

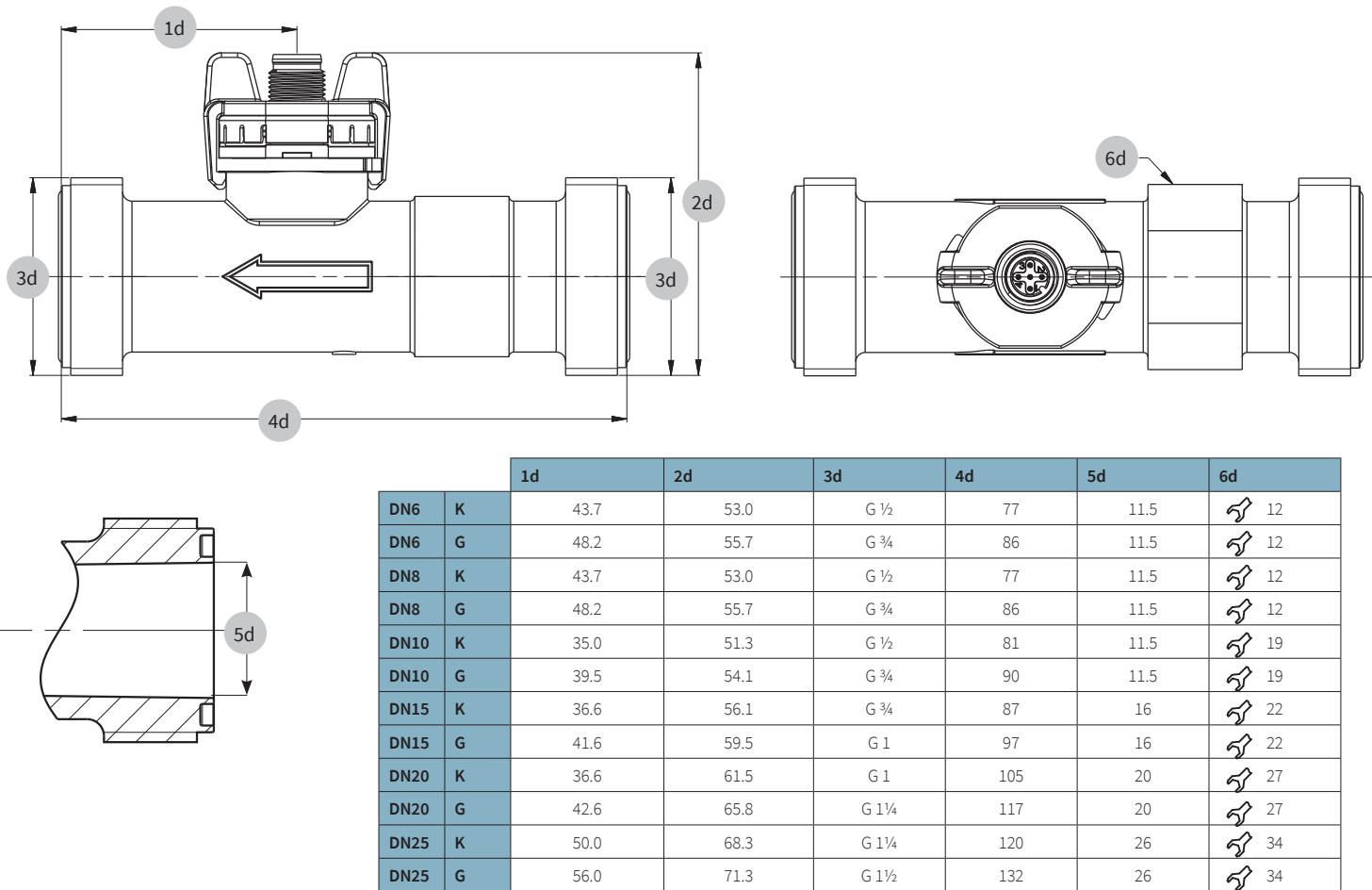
Consider the following to ensure the correct function of the sensor.

- Only diameter changes from large to small are allowed.
- Avoid repeated elbows in the same level at entryside

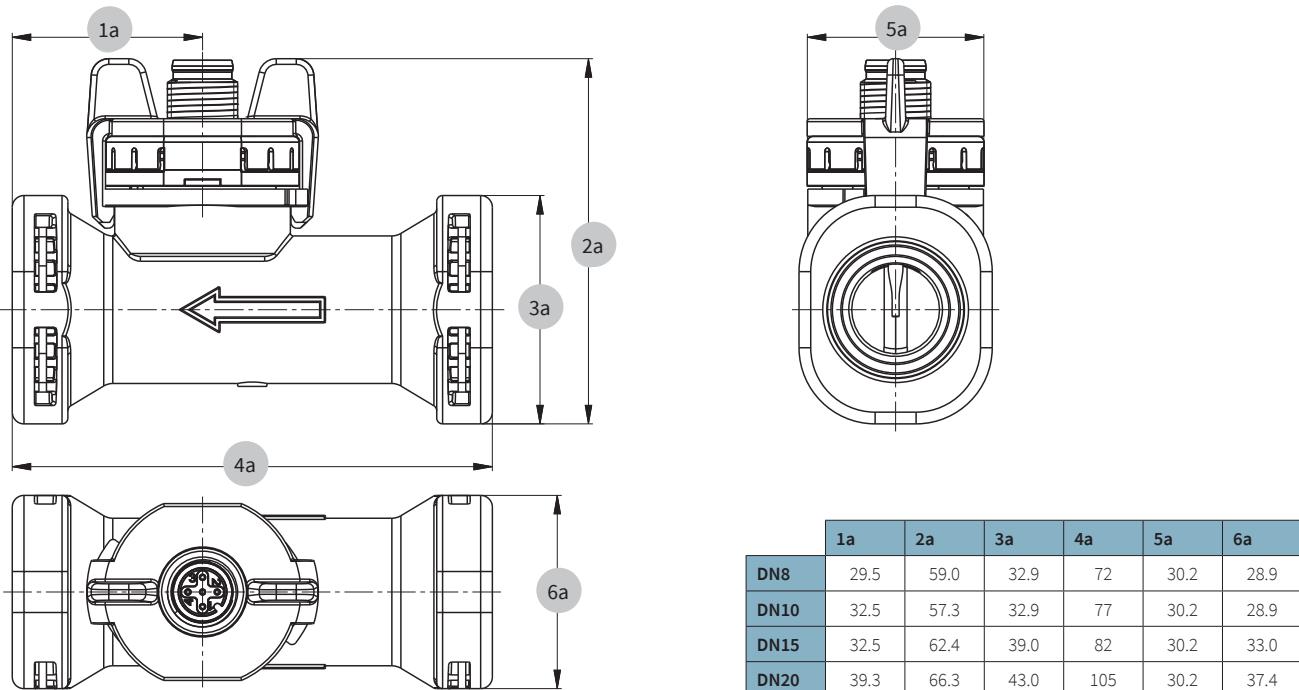


¹⁾ Connection set includes: 2x Clip, 2x Copper tubes or Adapter and 2x O-Ring

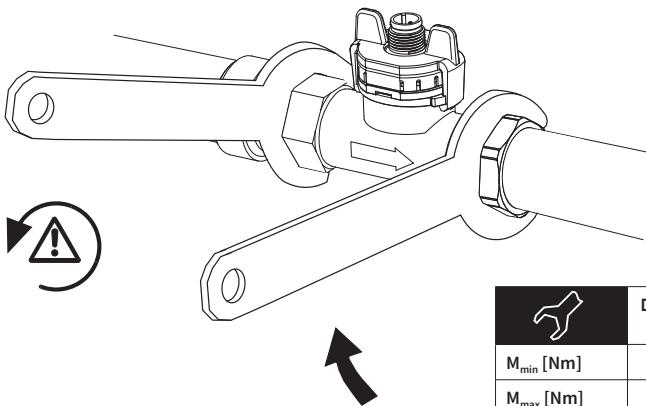
Dimension diagram DN 6, 8, 10, 15, 20, 25



Dimension diagram DN 8, 10, 15, 20

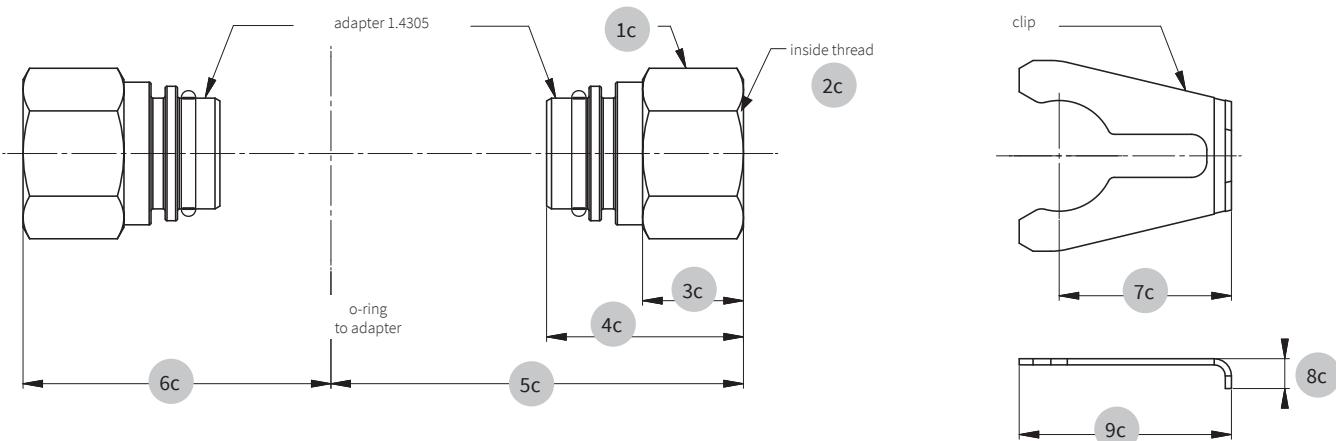


Admissible locking torque



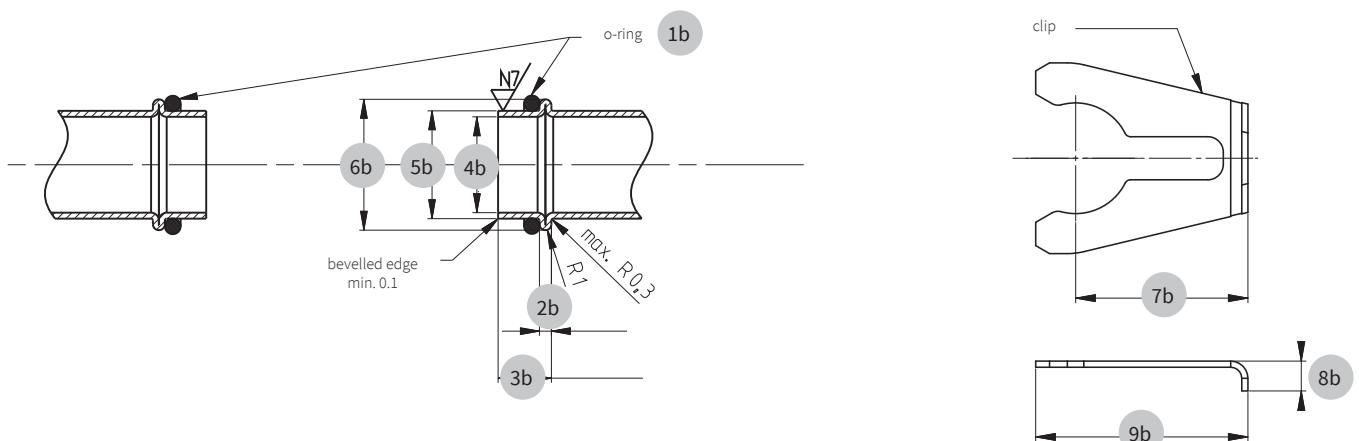
	DN6/8/10 G 1/2	DN6/8/10 G 3/4	DN15 G 3/4	DN15 G1	DN20 G1	DN20 G1 1/4	DN25 G1 1/4	DN25 G1 1/2
M _{min} [Nm]	1	1	1	2	2	2.5	2.5	2.5
M _{max} [Nm]	12	12	12	12	12	15	15	15

Accessories DN 8, 10, 15, 20



	1c	2c	3c	4c	5c	6c	7c	8c	9c
DN8	22	Rp 3/8 DIN 2999 length min. 9	14.0	29	57.65	44.65	24.5	7.3	30.8
DN10	22	Rp 3/8 DIN 2999 length min. 9	14.0	29	59.65	47.55	24.5	7.3	30.8
DN15	24	Rp 1/2 DIN 2999 length min. 11.5	16.4	32	67.05	50.05	28.0	7.6	34.5
DN20	30	Rp 3/4 DIN 2999 length min. 13	18.5	38	82.25	58.85	28.0	8.7	34.5

Geometry of customers connection tube DN 8, 10, 15, 20

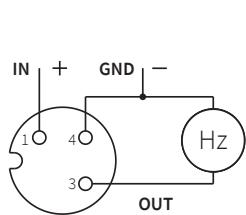


	1b	2b	3b	4b	5b	6b	7b	8b	9b
DN8	ø 13.95x2.62	2 ± 0.2	8.9 ± 0.2	ø 13 ± 0.2	ø 15.00 ± 0.08	ø 18.88 ± 0.1	24.5	7.3	30.8
DN10	ø 13.95x2.62	2 ± 0.2	8.9 ± 0.2	ø 13 ± 0.2	ø 15.00 ± 0.08	ø 18.88 ± 0.1	24.5	7.3	30.8
DN15	ø 17.86x2.62	2 ± 0.2	8.9 ± 0.3	ø 16 ± 0.2	ø 18.00 ^{+ 0.08} _{- 0.06}	ø 21.85 ± 0.1	28.0	7.6	34.5
DN20	ø 21.89x2.62	2 ± 0.2	12.9 ± 0.3	ø 20 ± 0.2	ø 22.00 ^{+ 0.08} _{- 0.06}	ø 25.85 ± 0.1	28.0	8.7	34.5

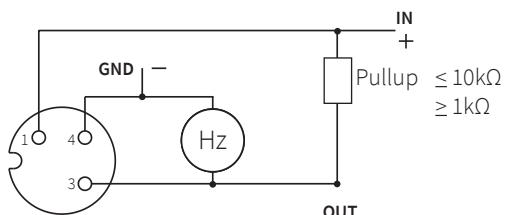
Electrical connection

Connector M12x1 without temperature measurement

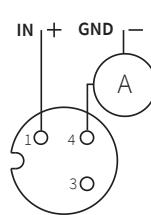
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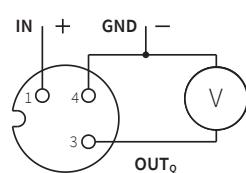
Frequency output
unfiltered



Frequency output filtered
Pulse output



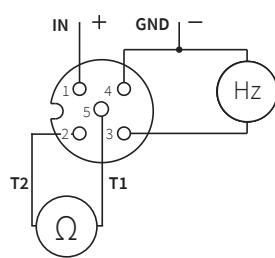
Current output



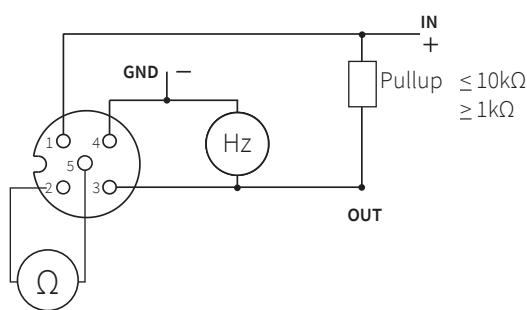
Voltage output

Connector M12x1 with temperature measurement

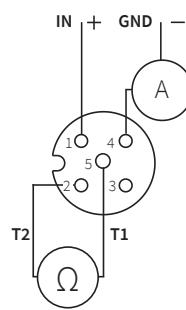
2



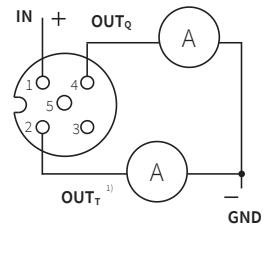
frequency output with
temperature measurement
PT1000



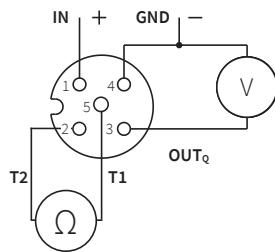
Frequency output filtered
Pulse output



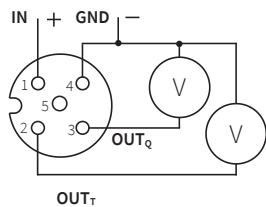
Current output
with temperature
measurement
PT1000



Current output with
temperature meas-
rement 4 ... 20 mA



Voltage output with temperature
measurement PT1000



Voltage output with temperature
measurement 0 ... 10 V

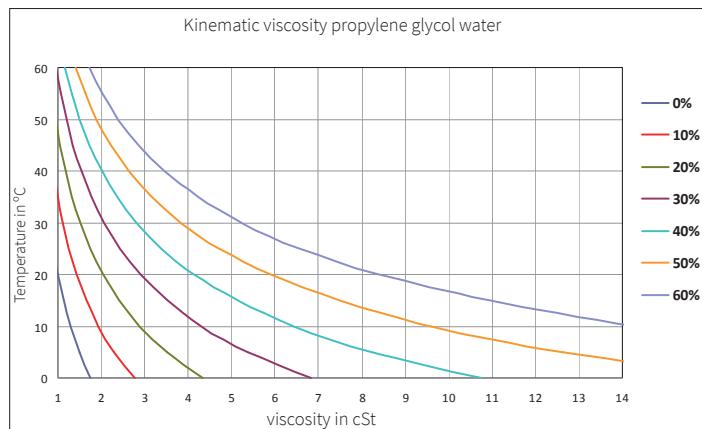
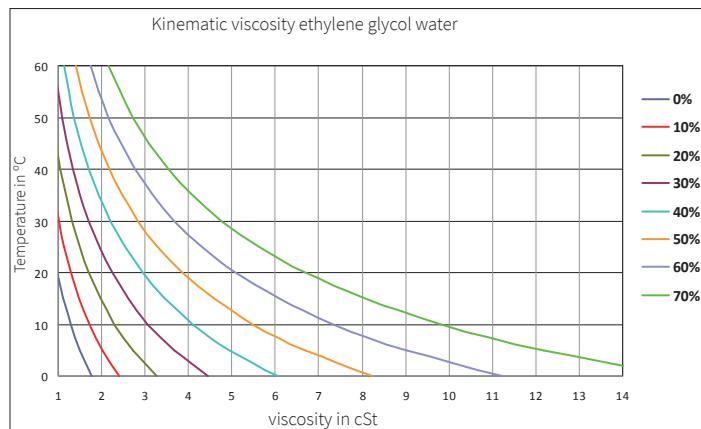
Pin	Colour
1	brown
3	blue
4	black
1	brown
2	white
3	blue
4	black
5	gray

¹⁾ «OUT T» is only in operation if «OUT Q» is connected

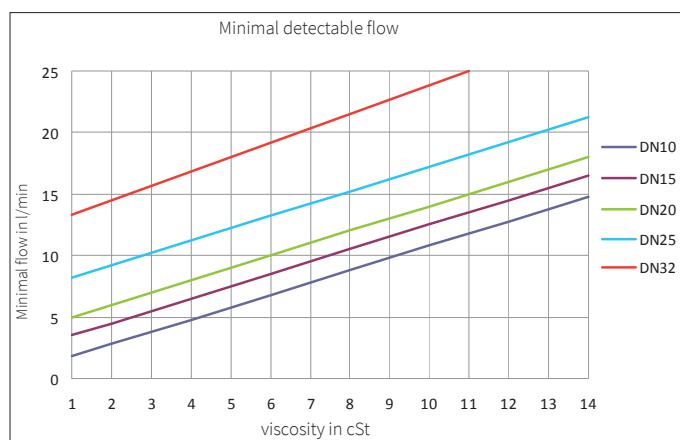
Influence of glycol

With the following definitions we are able to correct the influence of media with higher viscosity than water (= media viscosity > 1.8 cSt) in order to reach a measuring accuracy of 3% fs in the range of 1.8 - 4 cSt and of 4% in the range of 4 - 14 cSt (u = viscosity in cSt).

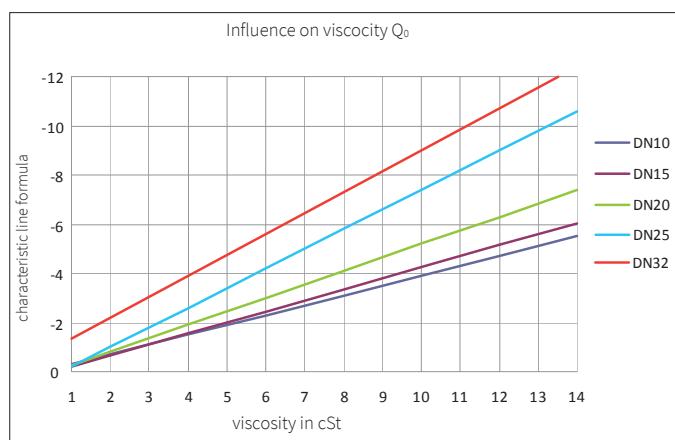
Definition of viscosity of glycol-water-compound



Definition of respond threshold Q_{min}



Definition of characteristic line formula $Q_v = k_f * f + Q_0$



Formula respond threshold Q_{min} in l/min

< DN 10 not possible

- DN10: $Q_{min} = u + 0.8$
- DN15: $Q_{min} = u + 2.5$
- DN20: $Q_{min} = u + 4$
- DN25: $Q_{min} = u + 8$

Formula characteristic line for $Q \geq Q_{min}$ in l/min

< DN 10 not possible

- Frequency output (unfiltered):
- DN10: $Q = K_f * f - 0.40u + 0.20$
 - DN15: $Q = K_f * f - 0.45u + 0.25$
 - DN20: $Q = K_f * f - 0.55u + 0.25$
 - DN25: $Q = K_f * f - 0.80u + 0.60$

Frequency output (filtered):

- DN10: $Q = 0.032 * f - 0.40u + 0.40$
- DN15: $Q = 0.050 * f - 0.45u + 0.45$
- DN20: $Q = 0.080 * f - 0.55u + 0.55$
- DN25: $Q = 0.150 * f - 0.80u + 0.80$

Impulse output:

- DN10: $Q = 0.030 * \#Pulse/s - 0.40u + 0.40$
- DN15: $Q = 0.060 * \#Pulse/s - 0.45u + 0.45$
- DN20: $Q = 0.060 * \#Pulse/s - 0.55u + 0.55$
- DN25: $Q = 0.075 * \#Pulse/s - 0.80u + 0.80$

Voltage output 0 ... 10 V:

- DN10: $Q = 3.2 * U_{out} - 0.40u + 0.40$
- DN15: $Q = 5.0 * U_{out} - 0.45u + 0.45$
- DN20: $Q = 8.5 * U_{out} - 0.55u + 0.55$
- DN25: $Q = 15.0 * U_{out} - 0.80u + 0.80$

Current output 4 ... 20 mA (I in mA):

- DN10: $Q = 2.000 * (I - 4 \text{ mA}) - 0.40u + 0.40$
- DN15: $Q = 3.125 * (I - 4 \text{ mA}) - 0.45u + 0.45$
- DN20: $Q = 5.313 * (I - 4 \text{ mA}) - 0.55u + 0.55$
- DN25: $Q = 9.375 * (I - 4 \text{ mA}) - 0.80u + 0.80$

Huba Control AG

Headquarters Schweiz
Industriestrasse 17
CH-5436 Würenlos
Telefon +41 56 436 82 00
Fax +41 56 436 82 82
info.ch@hubacontrol.com

Huba Control AG

Niederlassung Deutschland
Schlattgrabenstrasse 24
D-72141 Walddorfhäslach
Telefon +49 7127 2393 00
Fax +49 7127 2393 20
info.de@hubacontrol.com

Huba Control AG

Vestiging Nederland
Hamseweg 20A
NL-3828 AD-Hoogland
Telefoon +31 33 433 03 66
Telefax +31 33 433 03 77
info.nl@hubacontrol.com

Huba Control SA

Succursale France
Rue Lavoisier
Technopôle Forbach-Sud
F-57602 Forbach Cedex
Téléphone +33 3 87 84 73 00
Télécopieur +33 3 87 84 73 01
info.fr@hubacontrol.com

Huba Control AG

Branch Office United Kingdom
Unit 13 Berkshire House, County Park
Business Centre, Shivenham Road
Swindon - Wiltshire SN1 2NR
Phone +44 1993 77 66 67
Fax +44 1993 77 66 71
info.uk@hubacontrol.com

www.hubacontrol.com

