



Q water 5.5 R

Electronic water meter with measuring capsule

- › measuring capsule variant with nominal flow Q_3 2,5 m³/h
- › available for many connection interfaces from different manufacturers
- › integrated radio technology for integration into a Q walk-by or Q AMR system
- › integrated IR interface for simple parameter setting or readout
- › optimised display and display loop for simplified commissioning
- › integrated leak detection for safe operation

Application

The electronic water meter is used to measure water quantities. The main areas of application are water supply systems in which water is supplied individually to several consumers.

Such systems are used in e.g.:

- › apartment buildings
- › offices and administration buildings

Typical users are:

- › private building owners
- › housing industry and housing associations
- › building service companies and property management

Features

- › high compatibility with existing chrome trims
- › greater resistance to limescale and dirt
- › measuring water consumption
- › accumulating the consumption values
- › saving the accumulated consumption values on the due date
- › display of consumption values
- › display of the most important operating data
- › self-monitoring with error display data transmission via radio
- › data transmission by radio
- › detection of leaks and stagnation
- › parameter setting and readout via optical interface (IR-compatible)
- › radio data transmission by sending Q AMR- and Q walk-by telegrams in C-mode as standard
- › optional available only with Q AMR telegrams
- › for secure data transmission optionally with AES encryption mode 5 and mode 7 available

Technical data

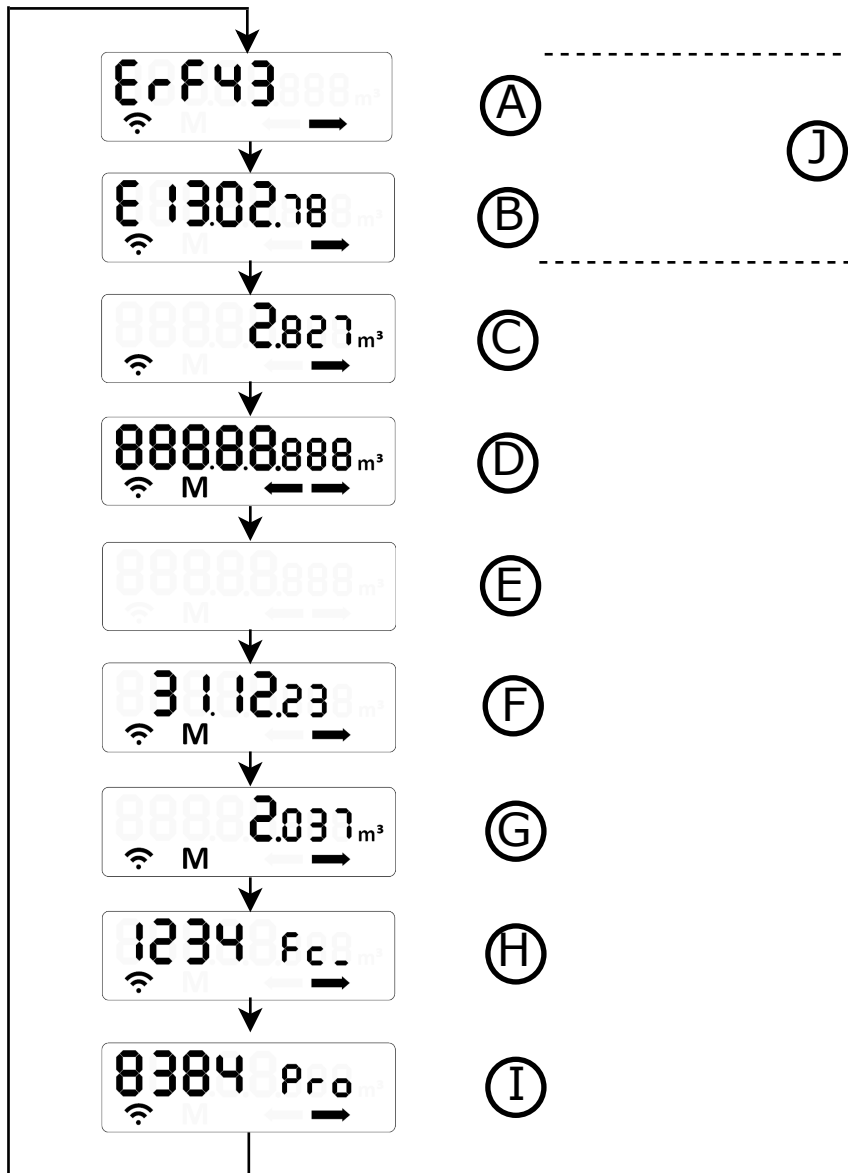
Ambient conditions			
Protection rating	IP65, IP68 ¹ according to EN 60529		
Protection class	III according to EN 61140		
Transport	-25 °C ... 70 °C, < 95 % r.F. (without condensation)		
Storage	-5 °C ... 45 °C, < 95 % r.F. (without condensation)		
Usage	5 °C ... 55 °C, < 95 % r.F. (without condensation)		
Influencing quantities			
Electromagnetic class	E1		
Mechanical class	M1		
Radio technology			
Radio mode	C-Mode (Q AMR, Q walk-by)		
Radio frequency	EN 300 220-2 C-Mode (868.95 +/- 0.25) MHz		
Transmission power	typical 10 dBm, maximum 14 dBm		
Encryption ²	Security Mode 5 and 7 according to EN 13757-7, Security Profile A and B according to OMS specification		
Data transmission	EN 13757-4		
Duty Cycle	< 1 % (50ms/128 s)		
Power supply			
Lithium battery	Nominal voltage 3.0 V		
Battery life	10 years operation + 1 year reserve + 1 year storage		
Flow sensor			
Max. permissible operating pressure (MAP)	1.6 MPa (16 bar)		
Inflow and outflow zone	not required (U0/D0)		
Type overview WME5 xxxx ...			
	... 4	... 6	... 8
suitable for connection interface	IST	A34	TE1
Meter size/Nominal flow Q_3 Q_3		2.5 m ³ /h	
Corresponds to previous nominal size Q_n		1.5 m ³ /h	
Connection thread	G2"	M77 x 1,5	M62 x 2
Overload flow rate Q_4		3.125 m ³ /h	
Transition flow rate Q_2 (H/V)		50 / 100 l/h	
Minimum flow rate Q_1 (H/V)		31.25 / 62.5 l/h	
Measuring range Q_3/Q_1 (H/V)		R80 / R40	
Nominal flow Q_3		2,500 l/h	
Temperature class MAT	Cold water T30, Hot water T30 / T90 °C		
permissible operating pressure MAP		16 bar	
Pressure loss class according to ISO 4064	Δp 40	Δp 40	Δp 63
Inflow and outflow zone		U0 / D0	

¹ tested according to manufacturer specifications

² Encryption optional

Displays in normal operation

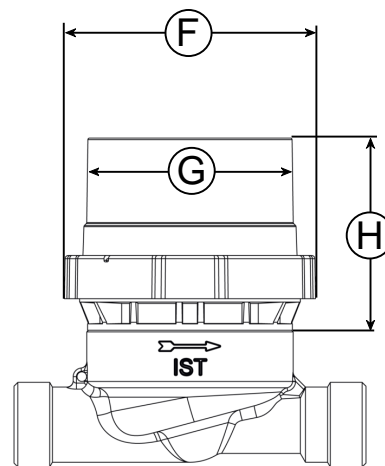
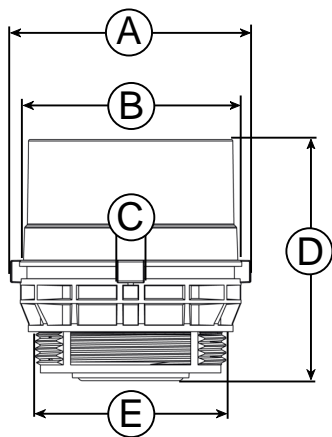
Device statuses and consumption values are shown on the LC display in a display loop.



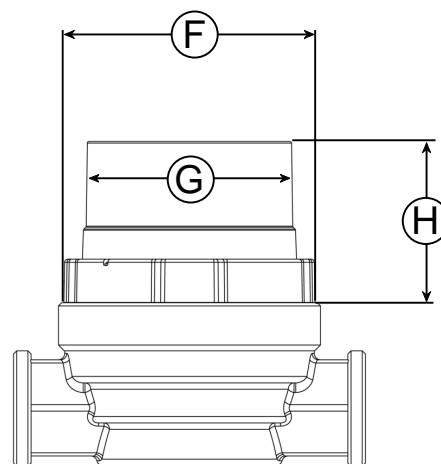
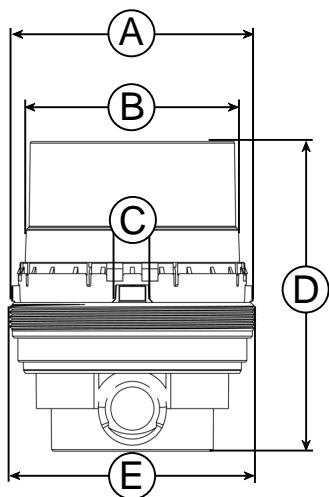
- (A) error code (2 sec)
- (B) error date (2 sec)
- (C) cumulative volume (10 sec)
- (D) display test: Display on (1 sec)
- (E) display test: Display off (1 sec)
- (F) last due date (4 sec)
- (G) consumption until due date (4 sec)
- (H) network number, Radio mode, Encryption (2 sec)
- (I) version number
- (J) displayed only in the event of an error

Dimensional drawings

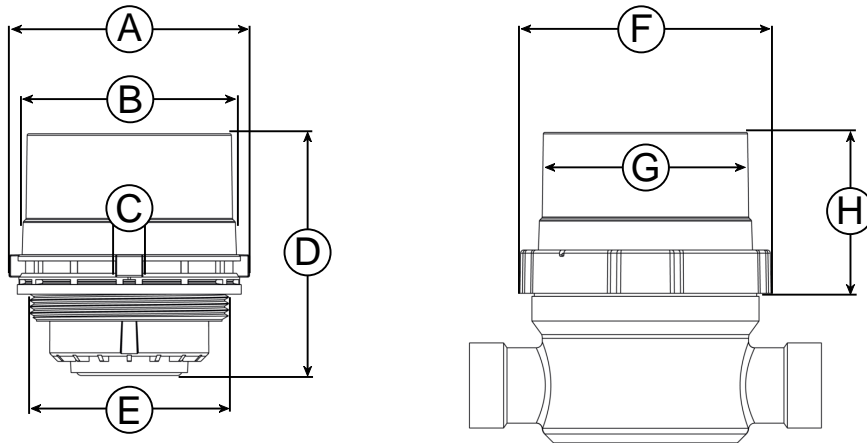
Type IST



Type A34



Type TE1

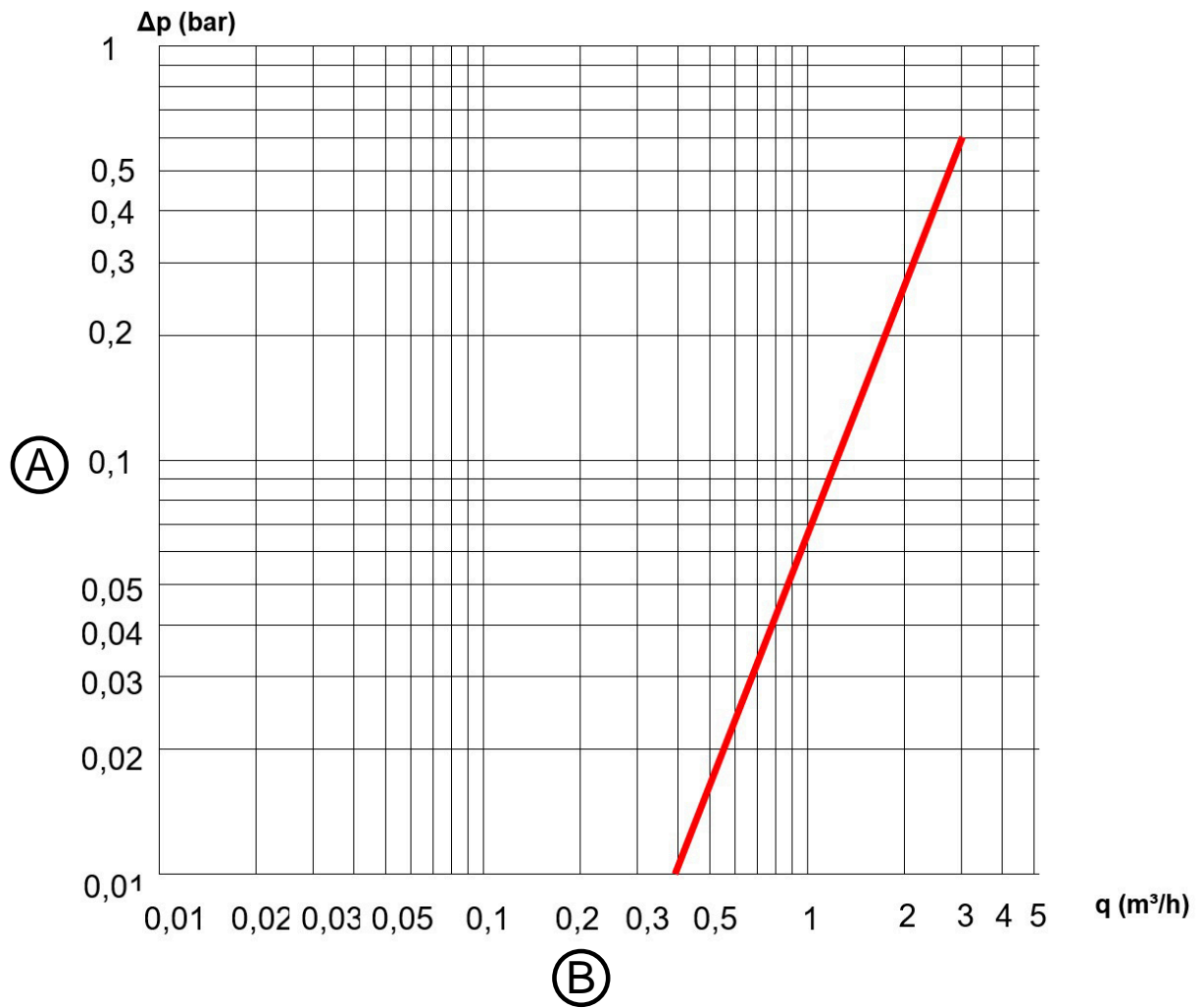


All dimensions in mm

	IST	A34	TE1
A	Ø 75.2	Ø 75.6	Ø 75.2
B	Ø 67	Ø 67	Ø 67
C	8.4	8.4	8.4
D	75.4	96.6	75.4
E	G 2	M77x1.5	M62x2
F	78.5	78.5	78.5
G	Ø 64.6	Ø 64.6	Ø 64.6
H	60.1	50.3	50.2

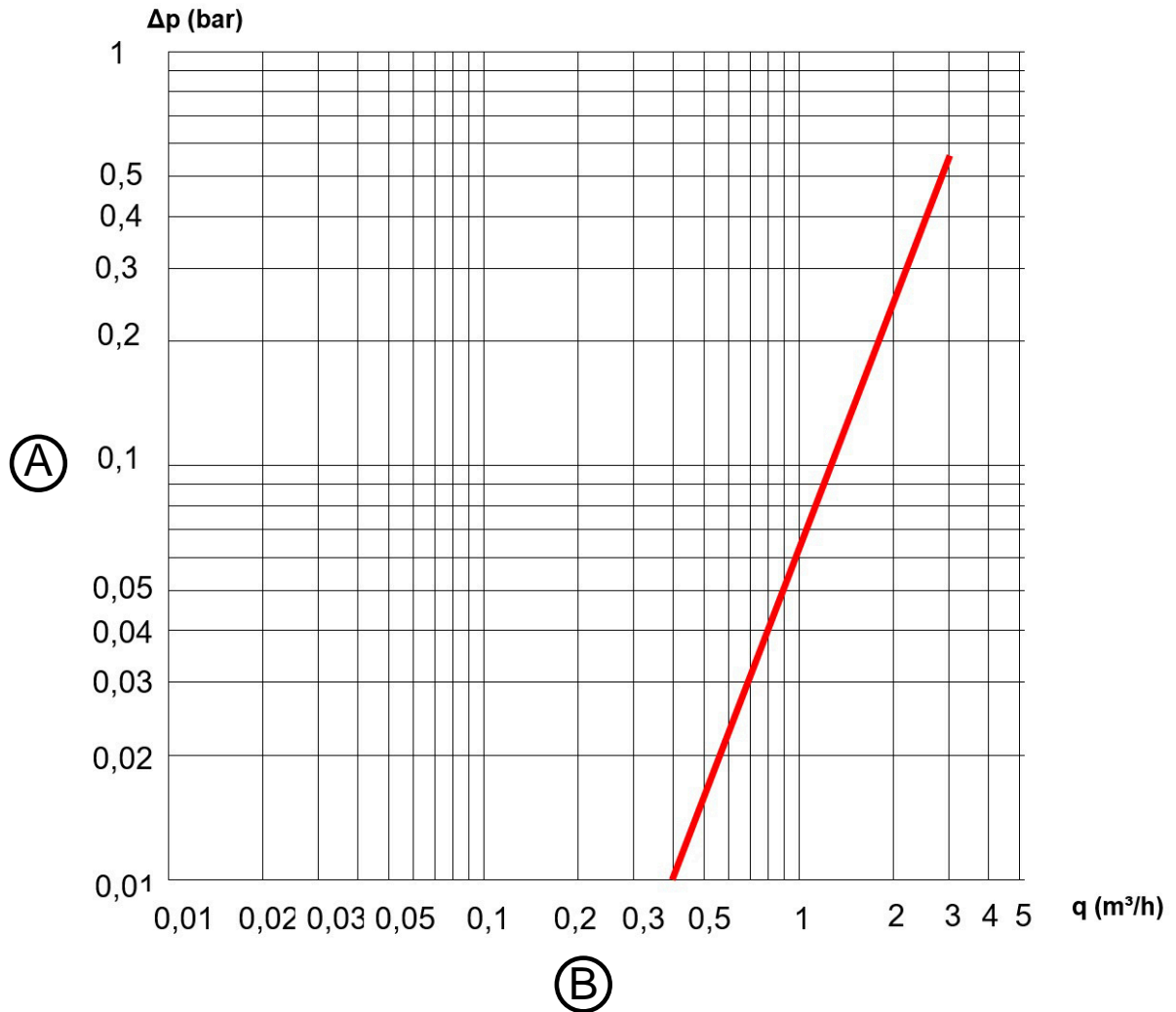
Pressure loss curves

Type IST



- (A) Pressure loss in bar
- (B) Flow rate in m³/h

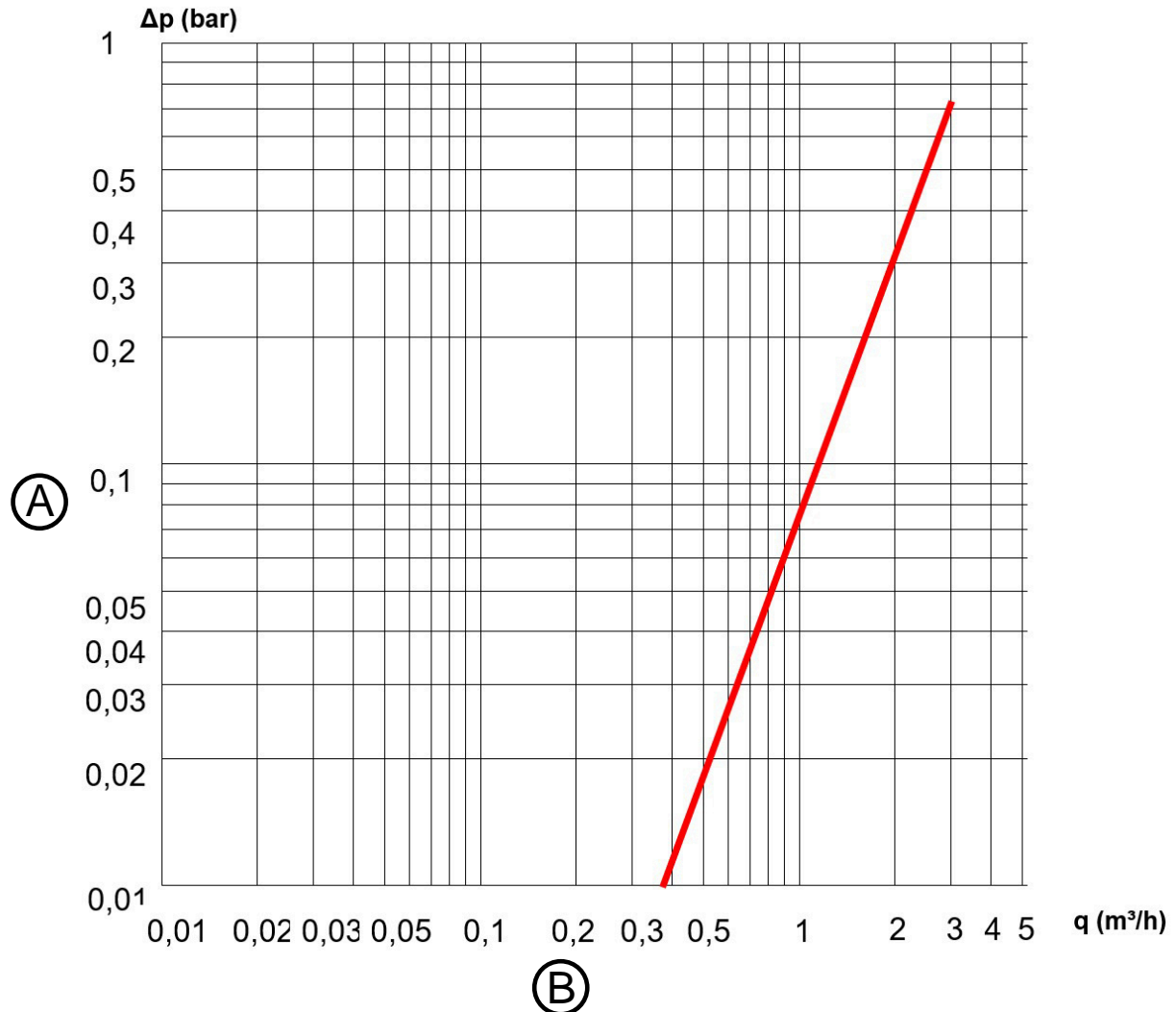
Type A34



(A) Pressure loss in bar

(B) Flow rate in m³/h

Type TE1



(A) Pressure loss in bar

(B) Flow rate in m³/h

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