

# M 210 Hybrid Multi Jet Smart Meter

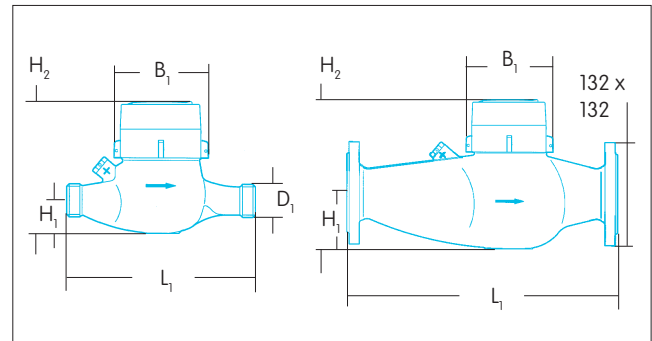
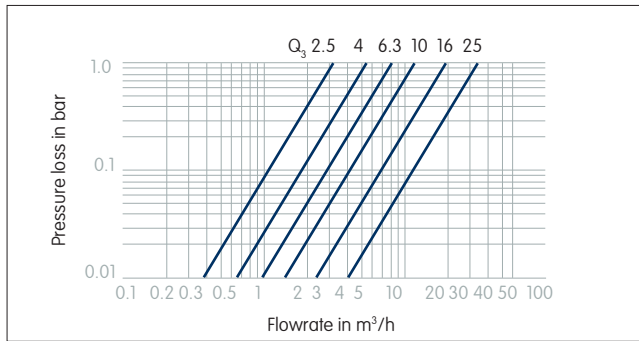
Measuring excellence goes AMR

elster M210  
genius

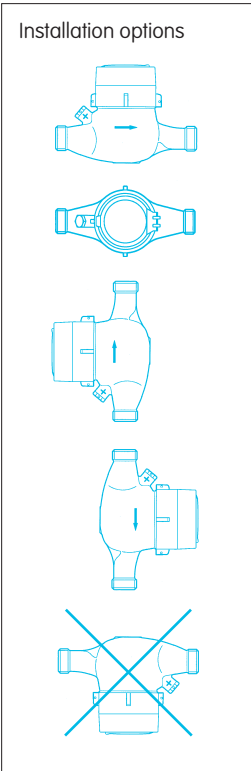


powered by  wavenis  
EMERIS Radio Technology

- Hybrid multi jet smart meter for cold water
- Inductive sensing of rotor speed
- Permanent flowrates  $Q_3$  2.5 up to  $Q_3$  25 m<sup>3</sup>/h
- MID type approval R200 ·H/R80·V exceeds measuring range acc. to EEC metrological classes C·H/B·V
- Universal mounting positions
- Integral Emeris radio modem



Multi-jet meter		M210								
Meter size /										
Nominal flowrate	Q <sub>3</sub> m <sup>3</sup> /h	2.5	2.5	4	6.3	10	16	25	25	
Nominal size	DN mm	15	20	20	25	25	40	50	50	
	DN inches	1/2	3/4	3/4	1	1	1 1/2	2	2	
<b>Dimensions</b>										
D <sub>1</sub>	Meter conn. thread ISO 228/1	inches	G 3/4 B	G 1 B	G 1 B	G 1 1/4 B	G 1 1/2 B	G 2 B	G 2 1/2 B	Flange
	Conn. pipe thread ISO 7/1	inches	R 1/2	R 3/4	R 3/4	R 1	R 1 1/4	R 1 1/2	R 2	—
L <sub>1</sub>	Meter length	mm	165	190	190	260	260	300	270/300	270/300
	Connector length	mm	40	50	50	60	60	70	60	—
B <sub>1</sub>	Width	mm	100	100	100	100	100	100	100	100
H <sub>1</sub>	Centerline/bottom height	mm	31	31	31	43	43	46	46	68
H <sub>2</sub>	Overall height	mm	138	138	138	153	153	176	176	183
	Weight	kg	1.6	1.6	1.6	2.5	2.5	3.7	4.5	8.5
<b>Performance data</b>										
Flowrate										
Maximum	Q <sub>4</sub> m <sup>3</sup> /h	3.1	3.1	5	7.9	12.5	20	31.25	31.25	
Transitional	Q <sub>2</sub> l/h	20	20	32	63	100	160	250	250	
Minimum	Q <sub>1</sub> l/h	12.5	12.5	20	39.4	62.5	100	156	156	
Starting flow	l/h	3	3	4	5.5	10	14	20	20	
Measuring range	Q <sub>3</sub> /Q <sub>1</sub> H	R200	R200	R200	R200	R200	R200	R200	R200	R200
	V	R80	R80	R80	R80	R80	R80	R80	R80	R80
Permanent flowrate Q <sub>3</sub>	l/h	2 500	2 500	4 000	6 300	10 000	16 000	25 000	25 000	
Temperature	MAT °C	50	50	50	50	50	50	50	50	50
Pressure rating	MAP bar	16	16	16	16	16	16	16	16	16
Flowrate at 1 bar pressure loss	m <sup>3</sup> /h	3.3	3.3	5.5	8.3	12.6	20.9	34.9	34.9	



<b>Display</b>	double spaced	
Digits 1st row (m <sup>3</sup> )	amount	6
Height	mm	9
Digits 2nd row (decimals)	amount	5
Height	mm	6.5
Flow direction		✓
Alarm display		✓
Air detection		✓

<b>Radio data</b>		
Protocol		Wavenis
Frequency technology		FHSS (15 radio channels) (Frequency Hopping Spread Spectrum) 868/25
Frequency/transmitting power	MHz/mW	up to 600 (depending on local conditions)
Range	m	bi-directional
Mode of transmission		
Connection velocity	kbits/s	up to 9.6
Performance of emission	dBi	8
Reference standard		CE (EN 300-683)
Certification		ART (EN 300-220-1)
Conformity		RTE 99/5/EC
Backflow alarm		✓
Leakage alarm		✓
Burst pipe alarm		✓
Battery "low level" alarm		✓
Data memory, programmable	data	24
Meter reading, actual		✓
Date and time of day		✓

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 Changes without notice  
 and facilities excepted

