

GKM C4200

Combination Potable Cold Water Meters

Combining two outstanding GKM metering technologies into one unit, the C4200 delivers highly accurate bulk flow metering for applications with large variations in flow rate, helping to ensure optimum revenue collection.

Key Features

- High turndown ratio
- Highly accurate bulk flow metering for applications with large variations in flow rate
- Designed to maximise revenue collection
- Interchange ability of key meter components including the complete PSM by-pass meter and H4000 mechanism for on-site replacement if required
- Available in size DN150

Operation

By utilising the low flow capability of a positive displacement PSM meter and the higher flow efficiency of a H4000 Woltmann meter, the C4200 is able to measure wide flow ranges from 0.0625 m³/h up to 312.5 m³/h.

At lower flows, the water is directed through the smaller PSM meter. As soon as the flow reaches a pre-determined higher level, differential pressure causes the changeover valve located in the H4000 Woltmann meter to open and the flow is directed through both meters

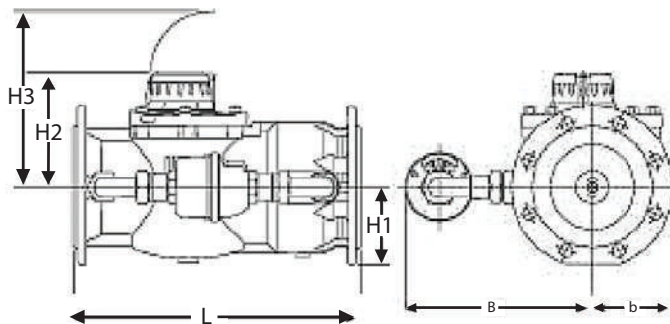
Product Specification

C4200 Metrological Characteristics

Size of Meter	DN150		
Minimum Flowrate	$Q_1 \pm 5\%$	m ³ /h	0.0625
Transitional Flowrate	$Q_2 \pm 2\%$	m ³ /h	0.1
Permanent Flowrate	$Q_3 \pm 2\%$	m ³ /h	250
Overload Flowrate	$Q_4 \pm 2\%$	m ³ /h	312.5
Measuring Range (R)	Q_3/Q_1		4000
Changeover Flowrate	Q_{x1}	m ³ /h	4 - 6
Changeover Flowrate	Q_{x2}	m ³ /h	6.5 - 8.5
Max Admissible Pressure		bar	16
Pressure Loss Class ΔP		bar	0.40
Indicating Range (Larger Meter)		m ³	9 999 999
Verification Scale Interval (Larger Meter)		m ³	0.005
Indicating Range (Smaller by-pass Meter)		m ³	99 999
Verification Scale Interval (Smaller by-pass Meter)		m ³	0.0001
Working pressure range		bar	From 0.3 to 16
Orientation requirements	all positions but not head down		

Dimensions

Size of Meter		DN150
Overall Length (L)	mm	500
Width (B)	mm	348
Width (b)	mm	143
Height to C/L of meter (H1)	mm	138
Height above C/L - lid closed (H2)	mm	207
Height above C/L - lid open (H3)	mm	308
Weight - approximate	kg	50



Pulse Connectivity

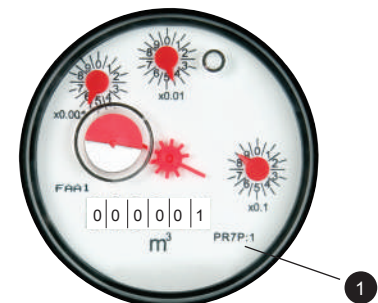
For larger meter (H4000), Pulse Weight can be calculated when fitted with PR7 inductive pulser. Pulse Weight is calculated by multiplying the Register 'Pulse Factor' (P) by the PR7 'K-Factor' (K) Pulse Weight (Litres per Pulse) = P x K

Size	Pulse Factor	K-Factor			
		K1	K10	K100	K1000
DN150	P:1	10 ltrs	100 ltrs	1000 ltrs	10,000 ltrs

PR7 is an open collector pulse transmitter suitable for data logging, AMR and telemetry equipment. Check with your equipment supplier for full details of compatibility.

The PR7 with a K factor of 1 should be used with advanced data loggers, those capable of accepting a 5ms width pulse. Other outputs (k > 1) have a variable pulse width. These can be used with any data logger.

For smaller by-pass meter (PSM), a reed switch pulse output facility is also available. The output pulse is 5 ltr/pulse.



- 1 On the PR7 unit the user can identify from the label the K-Factor for each output channel
- 2 Primary Output K-Factor
- 3 Secondary Output K-Factor

- 1 On this example 50mm GKM H4000 register, the user can identify from the dial plate both the:
 - Type of pulser to use ie PR7
 - Pulse Factor ie P:1

Approval Certificate



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The Company policy is one of continuous improvement and the right is reserved to modify the specifications without prior notice