The Kent Range of Domestic Meters

S130 and M150 Single-jet and multi-jet warm water meters

Permanent flow rate qp	S130	m³/h	1.5	2.5	_	_	_
Permanent flow rate qp	M150	m³/h	1.5	2.5	3.5	6	10
Size		mm	15	20	25	30	40
Maximum working temperature			90°C				

The S130 is a single-jet inferential warm water meter with a dry dial register. Its balanced hydraulic design gives a wide measuring range with a good low flow performance. The rotor and undergear are the only wetted moving parts and a magnetic coupling transmits the drive from the rotor to the hermetically sealed register.

The M150 is a multi-jet warm water meter with a dry dial register. It operates on the velocity principle in which water enters the measuring chamber through a number of ports and drives the inner rotor. This movement is transmitted by a magnetic coupling to the register which displays the total quantity passed.

Pulse unit

A standard feature of both models is a pulse output, in which the pulse unit is incorporated within the register, with the cable exiting from the side. The pulse element is a volt-free contact reed switch. Versions without a pulse output are also available.

Standard features

- Tamper-resistant construction
- The register is dust-free, waterproof and vacuum-sealed to avoid condensation

- Numbered rollers show cubic metres, with pointers indicating litres
- Headloss is less than 1 bar at overload flow rate (qs)
- Suitable for water with aboveaverage solids in suspension
- The rotor is suspended by hydrodynamic forces to give minimum load on the bearings
- The magnetic drive is unaffected by external magnetic interference
- Meter is supplied complete with connections
- Maximum working pressure of 16 bar

Installation

The meter is installed with the direction of flow as indicated by the arrow cast in the meter body. A horizontal position with the register face upwards is recommended. No adjustments are necessary before installation as it is calibrated before despatch.



S130 and M150



Performance			S130				M150				
Size of meter		mm	15	20	15	20	25	30	40		
Permanent flow rate	qp±2%	m³/h	1.5	2.5	1.5	2.5	3.5	6	10		
Overload flow rate	qs±2%	m³/h	3	5	3	5	7	12	20		
Transitional flow rate	qt±2%	l/h	100	200	120	200	280	400	800		
Minimum flow rate	qmin±5%	l/h	25	50	30	50	70	100	200		
Starting flow rate (approxi	mately)	l/h	7	10	10	14	18	20	30		
Headloss at qs		bar	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Headloss at gp		bar	0.2	0.25	0.25	0.25	0.25	0.25	0.25		
Metering capacity		m³	10000	10000	100000	100000	100000	100000	100000		
Minimum scale value		litre	0.02	0.02	0.2	0.2	0.2	0.2	0.2		
Dimensions			-	1	•	1	1				
Connection thread size	BSPT	inches	G½	G¾	G½	G¾	G1	G1¼	G1½		
Meter thread size	BSP	inches	G¾	G1	G¾	G1	G1¼	G1½	G2		
Length without connector	rs – L1	mm	115	115	190	190	260	260	300		
Length with connectors –	12	mm	200	207	275	281	365	371	431		
Height to centre line – H1		mm	19	19	32.5	40	47	47	58		
Height lid open – H3		mm	138	138	165	170	185	185	210		
Height lid closed – H2		mm	88	88	117	124	137	137	147		
Width		mm	84	84	84	94	100	100	122		
Weight without connector	°C	ka	0.60	0.70	1.35	1.5	2	21	3.3		
Weight with connectors (a	annroximatel) ka	0.77	0.96	1.50	1.80	2.51	2.1	4.35		
Pulse generator spe	cification	, iig	0.11	0.00	1.02	1.00	2.01	2.01	1.00		
Pmax 4W Frequency S130 S130 Pulse per litre (bott M150 Pulse per 10 litres Pulse per litre (15m Cable 2 core, 1.6m long, bare wire terminati Materials of Constru	h sizes) (all sizes) mm and 20m , 4mm diame ion (flying lea iction	m only) to s iter, d)	special order						H3		
Body	Copper alloy 62%			ļ	┛╟──╠╋╬╢──	<	┉┉╋	H1 ¥	¥		
Shaft	Stainless steel 18/8 / polyamide			_	_				<u> </u>		
Thimble filter	High density polyethylene					LI		1.1.			
Measuring chamber	Polystyrene				4						
Rotor	Polyamide ⁻	12			-	LZ					
Lower plate	Polystyrene							1			
Wet gear train	Graphited p	olyamide 12	2								
Upper plate	Polyphenylene oxide glass loaded			M1	50		~				
Sealing elements:					50		>				
O ring	Elastomer /	nitrite									
Washer	Polyamide 6					$\langle \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$					
Locking ring	acetal resin 25% glass loaded								Á		
Register:				1		16					
Case and bottom plate Polycarbonate					<u>م ل</u> کے						
Case and bottom plate	Polycarbona	ate			k	*** \	L .				
Gears	Polycarbona Graphited p	ate olyamide 12	2			\sim		< _	⊢ H2		
Gears Rollers	Polycarbona Graphited p Polystyrene	ate polyamide 12	2				_ (`		⊢ ⊢]) ¥		
Gears Rollers Number roller	Polycarbona Graphited p Polystyrene ABS	ate oolyamide 12	2			∑/ ⇒ \ □					
Gears Rollers Number roller Clamping ring	Polycarbona Graphited p Polystyrene ABS Polyamide 6	ate polyamide 12	2								
Gears Rollers Number roller Clamping ring Lid	Polycarbona Graphited p Polystyrene ABS Polyamide (Polycarbona	ate polyamide 12	2								
Case and bottom plate Gears Rollers Number roller Clamping ring Lid Compatibility with these m	Polycarbona Graphited p Polystyrene ABS Polyamide (Polycarbona naterials of co	ate polyamide 12 6 ate ponstruction	2								



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Pressure equipment directive 97/23/EC

This product is applicable in networks for the supply, distribution and discharge of water and associated equipment and is therefore exempt.

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