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ULTRASONIC WATER METERS FLOMIC FL5024, FL5025 FLOMIC FL5044, FL5045



FLOMIC FL5024, FL5025, FL5044, FL5045

The battery-powered **FLOMIC FL5024 F, L5025 and FLOMIC FL5044, FL5045 ultrasonic water meters** are intended for operational and invoicing measurements ofinstantaneous flow rate, pressure and consumption in water piping in observance of standard EN 14154 in water works, water distribution systems and other industrial applications. These water meters are in compact or remote design with the IP 68 protection class. They are characterised by high measurement accuracy and long-term stability over a wide range of measured values. The meters do not need any external power supply, do not include any moving parts and, have significantly lower hydraulic losses. The technical parameters and other features of the FLOMIC water meters make them suitable not only for water consumption measurements, but also for water-leak tracking and monitoring of the general condition of water-supply networks, where the meter output signals can be connected via data transfer systems to remote computer control stations. The measurement method utilised by these meters is a single-beam (FL5024, FL5025) or dual-beam (FL5044, FL5045) transit-time pulse method based on evaluation of the time needed for an ultrasonic signal to cross the distance between two measuring transductors. In the standard version, the meter measures instantaneous flow rate (in m³)hour) and the total volume of water passed through the meter (in m³) in the given flow direction. The measured data are converted into passive pulse output signals.

OPTIONAL METER ACCESSORIES:

bi-directional flow rate and volume measurements with visual and electronic indication of the actual flow rate direction
measurement and display of instantaneous water pressure values within the range of 1 to 16 bar

-using a passive current output signal 4 to 20 mA, monitoring the instantaneous flow rate or flow pressure values

measured data storage with user-selectable sampling period of 1 minute to 1 year

•actual and stored data reading via the USB or RS 232 interface

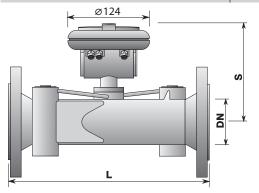
•connection to a remote data transfer system by means of a GSM module

•use of alternative measurement units (Gal/min, or litre/sec)

•a pplication of the meter within drinking-water supply systems

•power supply via the 4 to 20 mA current line

·power suppry via the 4 to 20 mA current line				FLOMIC FL5044, FL5045							
TECHNICAL PARAMETERS			FLOMIC FL5024, FL5025								
nominal diameter		32	40	50	65	80	100	125	150	200	
overload flowrate Q ₄[m ³ h]		12.5	20	31.25	50	78.75	125	200	312.5	500	
permanent flowrate Q 3[m ³ h]		10	16	25	40	63	100	160	250	400	
minimum flowrate Q ₁ [m ³ /h] FL502X		0.04	0.064	0.1	0.16	0.200	0.317	0.508	0.794	1.270	
	FL504X				0.127	0.157	0.25	0.4	0.625	1.0	
pulse output constant k, [litres/pulse]		10	10	25	50	50	100	100	100	250	
flowrate ratio Q_3/Q_1	FL502X	250	250	250	250	315	315	315	315	315	
	FL504X				315	400	400	400	400	400	
water pressure class		MAP 16									
temperature class		T50 (FL5024, FL5044), T90 (FL5025, FL5045)									
flow-profile befo	ore meter	U5 (FL5044, FL5045), U10 (FL5024, FL5025)									
sensitivity class after	meter	D3 (FL5044, FL5045), D5 (FL5024, FL5025)									
pressure loss class		ΔP 25									
climatic and mechanical resistance class		В									
electromagnetic environment		E1, E2									
flowrate sampling period		1 sec									
display unit		single-line 8 character LC display									
power supply			Li battery 3.6 V/19 Ah - lifetime 8 years in standard meter version								
protection class		IP 68									
output (insulated)			measured flow-rate values indicated in the form of passive pulse output U = 3 to 30 V, I = 0.002 to 10 mA, t $_{imp}$ = 30 ms								
optional accessories		passive current output 4 to 20 mA, U = 10 to 24 V									
f	oi-directional low-rate	+ passive pulse output , U = 3 to 30 V, I = 0.002 to 10 mA, t_{imp} = 30 ms - passive pulse output , U = 3 to 30 V, I = 0.002 to 10 mA, t_{imp} = 30 ms									
measureme		passive current output 4 to 20 mA, $U = 10$ to 24 V, in combination with passive electric contact for indication of the actual flow-rate direction									
	optically isolated interfaces USB, RS 232 or RS 232 + USB converter GSM module										



FL5024 (compact version), FL5025 (remote version) FL5044 (compact version), FL5045 (remote version)

BASIC DIMENSION AND WEIGHT

diameter [mm]	32	40	50	65	80	100	125	150	200
L [mm]	260	300	300	300	350	350	350	350	350
S [mm]	140	145	150	155	160	165	180	190	205
weight [kg]	4.5	7	10	11	15	17.5	22.5	26	36.5

Certified according to MID (TCM 142/11 - 4817) Certified according to OIML R49



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