

ULTRASONIC WATER METERS FLOMIC FL5024 FLOMIC FL5044

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## FLOMIC FL5024, FL5044

The battery-powered **FLOMIC FL5024 and FLOMIC FL5044 ultrasonic water meters** are intended for operational and invoicing measurements of instantaneous 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 of a compact 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 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 m<sup>3</sup>/hour) and the total volume of water passed through the meter (in m<sup>3</sup>) 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

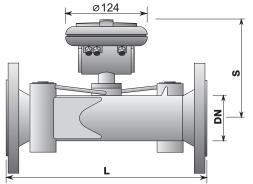
•actual and stored data reading via the USB or RS 232 interface

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

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

•application of the meter within drinking-water supply systems

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	FLOMIC FL5044											
TECHNICAL PARAMETERS			FLOMIC FL5024									
nominal diameter			32	40	50	65	80	100	125	150	200	
overload flowrate Q <sub>4</sub> [m <sup>3</sup> /h]			12.5	20	31.25	50	78.75	125	200	312.5	500	
pernament flowrate Q <sub>3</sub> [m <sup>3</sup> /h]			10	16	25	40	63	100	160	250	400	
transitional flowrate $Q_2[m^3/h]$		FL5024	0.32	0.512	0.8	1.28	2.016	3.2	5.12	8.0	12.8	
		FL5044				0.64	1.0	1.6	2.5	4.0	6.4	
minimum flowrate Q <sub>1</sub> [m³/h]		FL5024	0.2	0.32	0.5	0.8	1.26	2.0	3.2	5.0	8.0	
		FL5044				0.4	0.63	1.0	1.6	2.5	4.0	
pulse output constant l	pulse output constant k, [litres/pulse]		10	10	25	50	50	100	100	100	250	
water pressure class			MAP 16									
temperature class			Т50									
flow-profile	befor	e meter	U5 (FL5044), U10 (FL5024)									
sensitivity class	after	after meter		D3 (FL5044), D5 (FL5024)								
pressure loss class			ΔP 10									
climatic and mechanical resistance class			В									
electromagnetic environment			E1, E2									
flowrate sampling period			1 sec									
display unit			single-line 8 character LC displaz									
power supply			Li battery 3.6 V/19 Ah - lifetime 8 years in standard meter version									
protection class	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 bi-directional flow-rate measurement		passive current output 4 to 20 mA, U = 10 to 24 V										
			+ passive pulse output, U = 3 to 30 V, I = 0.002 to 10 mA, $t_{mp}$ = 30 ms - passive pulse output, U = 3 to 30 V, I = 0.002 to 10 mA, $t_{mp}$ = 30 ms									
		easurement	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 FL5044

## 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



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