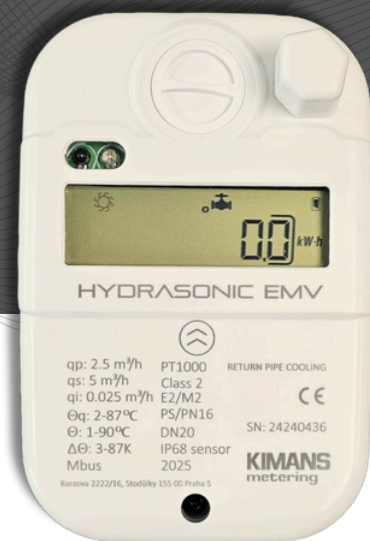


HYDRASONIC EMV

Ultrasonic BTU Meter & Energy Valve

Revolutionizing Flow



The Hydrasonic EMV is an advanced ultrasonic thermal energy (BTU) meter combined with a motorized energy control valve. This intelligent all-in-one device measures thermal energy consumption while regulating flow to optimize system efficiency. Designed for heating and cooling systems, it actively manages delta T through remote-controlled modulation or shut-off, ensuring significant energy savings and streamlined building management.

INTEGRATED
ULTRASONIC BTU METER
AND ENERGY VALVE



ACTIVELY MODULATES
FLOW TO MAINTAIN
TARGET DELTA T



REMOTE SHUT-OFF AND
FLOW CONTROL
CAPABILITIES



LONG BATTERY LIFE
UPTO 6 YEARS/ 24V
EXTERNAL POWER
SUPPLY



IP68 PROTECTION: FULLY
WATERPROOF AND
DUSTPROOF



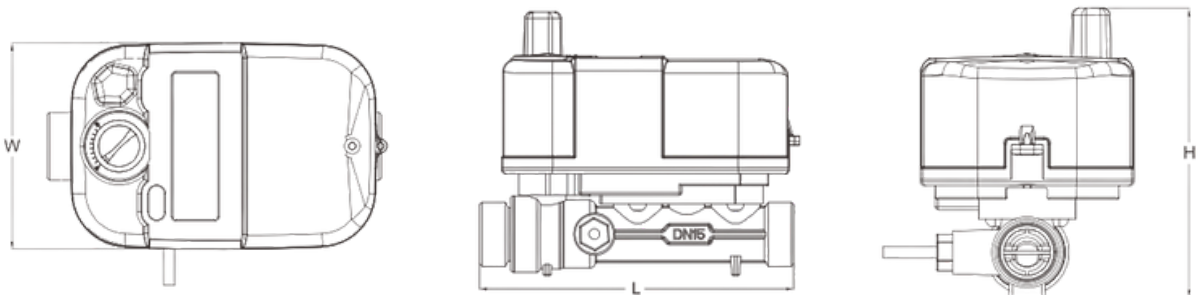
FEATURES

TECHNICAL DATA

Diameter	Min. Flow	Norm. Flow	Max. Flow	Length
	qmin (m3/h)	qp (m3/h)	qmax (m3/h)	mm
DN15	0.015	1.5	3	130
DN20	0.05	2.5	5	130
DN25	0.07	3.5	7	160
DN32	0.12	6	12	180
DN40	0.2	10	20	200
Accuracy	Class 2			
Connection type	Threaded connection			
Pressure loss	≤0.02MPa			
Max. working pressure	1.6MPa			
Temperature sensor	1.5m standard two-wire PT1000 paired temperature sensor (wire length can be reserved)			
Data storage	Continuous storage of the previous 24 months of history			
Communication	Optical/MBus/RS-485/LoRaWAN/NB-IoT/Zigbee/wMBus			
Power supply	3.6V Lithium battery/External DC24V			
Protection grade	IP68			
Environmental	Class A			
Temperature range	(4 ~ 95) °C			
Temperature difference range	(2 - 90) K			
Installation method	water inlet or water return			
Installation position	Horizontal or vertical			
Battery life	Battery life time 6 years (standard), 10 years (Optional), 24VDC with battery back-up (Optional)			
Display	8-bit LCD liquid crystal display			
Anti- magnetic interference	The meter shall maintain accurate metering and remote transmission performance when exposed to a magnetic field with an intensity of up to 100 kA/m			

DIMENSIONS

Nominal Diameter	DN15	DN20	DN25	DN32	DN40
Thread	G 3/4B	G1B	G1 1/4B	G1 1/2B	G2B
L (mm)	130	130	160	180	200
W (mm)	88	88	88	88	88
H (mm)	125	129	136	139	149



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