

Ultrasonic Flow Meters

Replacement flow sensor for EPIV, Ultrasonic 1 1/2" 40





Technical data

Electrical Data	Nominal voltage frequency	50/60 Hz
Functional Data	Sensor Technology	Ultrasonic transit time
	Application	water
	Pipe connection	NPT female
	Installation position	upright to horizontal
	Servicing	maintenance-free
Measuring Data	Measured values	Flow
	Measuring fluid	Water and water-glycol mixtures
	Measuring principle	Ultrasonic volumetric flow measurement
	Measuring accuracy flow	±2%*
	Measurement Repeatability	±0.5% (Flow)
Materials	Flow measuring pipe	brass body nickel-plated
Safety Data	Ambient humidity	Max. 95% RH, non-condensing
	Protection class IEC/EN	III, Safety Extra-Low Voltage (SELV)
	Certification IEC/EN	IEC/EN 60730-1:11 and IEC/EN 60730-2-15:10
	UL Approval	cULus acc. to UL94
	UL 2043 Compliant	Suitable for use in air plenums per Section 300.22(C) of the NEC and Section 602 of the IMC
	Degree of protection IEC/EN	IP54
	Degree of protection NEMA/UL	NEMA 2
	Enclosure	UL Enclosure Type 2
	EMC	CE according to 2014/30/EU
	Quality Standard	ISO 9001
	Mode of operation	Туре 1

Safety Notes

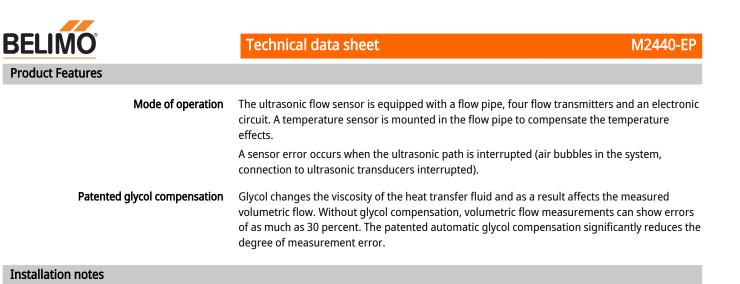


This device has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.

Outdoor applications: Only possible where (sea) water, snow, ice, sunlight or aggressive gases cannot interfere directly with the device and it can be guaranteed that the ambient conditions remain at all times within the thresholds according to the data sheet.

Only authorized specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation.

The device contains electrical and electronic components and must not be disposed of as household refuse. All locally valid regulations and requirements must be observed.



Recommended installation positions	The sensor can be installed upright to horizontal. The sensor may not be installed in a hanging position.	
	90° 90°	
Installation in return	Installation in the return is recommended.	
Inlet section	In order to achieve the specified measuring accuracy, a flow-calming section or inflow section in the direction of the flow is to be provided upstream from the flow sensor. Its dimensions should be at least 5x DN.	
Servicing	Sensors are maintenance-free.	
	Before any service work on the sensor is carried out, it is essential to isolate the sensor from the power supply (by unplugging the electrical cables if necessary). Any pumps in the part of the piping system concerned must also be switched off and the appropriate slide valves closed (allow all components to cool down first if necessary and always reduce the system pressure to ambient pressure level).	
	The system must not be returned to service until the sensor has been correctly reassembled in accordance with the instructions and the pipeline has been refilled by professionally trained personnel.	
Flow direction	The direction of flow, specified by an arrow on the housing, is to be complied with, since otherwise the flow rate will be measured incorrectly.	