

# SHARKY FUE 380

ULTRASONIC FLOW SENSOR

**DIEHL**  
Metering



## APPLICATION

SHARKY ultrasonic flow sensor model FUE 380 is designed for measuring water flow in local and district heating / cooling systems. Its ultrasonic technology is based on the transit time measurement. It offers many benefits : no moving parts (reduces wear and tear of the metering components), low pressure loss, wide dynamic measuring range, low start flowrate and insensitiveness to suspended particles.

## FEATURES

- ▶ MID Class 2 approval
- ▶ Complete range from DN 125 up to DN 350
- ▶ Applicable for calculators with impulse input
- ▶ Heat-transfer fluid: glycol-free water
- ▶ Temperature range from +5°C to +120°C for the compact version and +5°C to +200°C for the separated converter version

# SHARKY FUE 380

## ULTRASONIC FLOW SENSOR

### GENERAL

SHARKY FUE 380	
Application	heating / cooling   Heat-transfer fluid: glycol-free water
Approval	MID (DK-200-MI004-005)
Ambient class	MID class E1 + M1
Ambient temperature	°C 0 ... +60
Power supply	87 VAC ... 250 VAC   50 ... 60 Hz
Mounting position	any position
Protection class	IP 67
Interface	pulse output
Volume pulse value	100 l / pulse

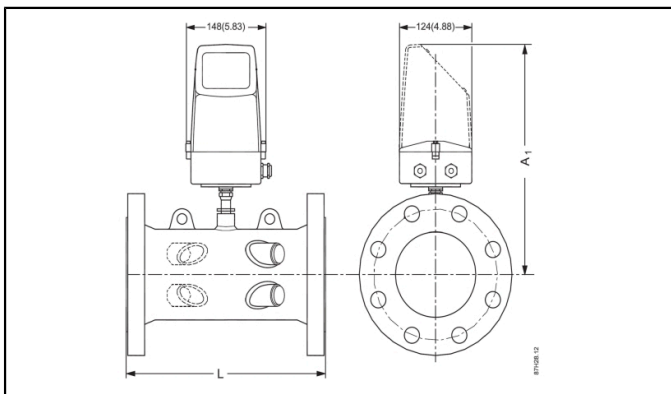
### TEMPERATURE RANGE

SHARKY FUE 380	
Temperature range compact version	°C +5 ... +120
Temperature range separated converter version	°C +5 ... +200

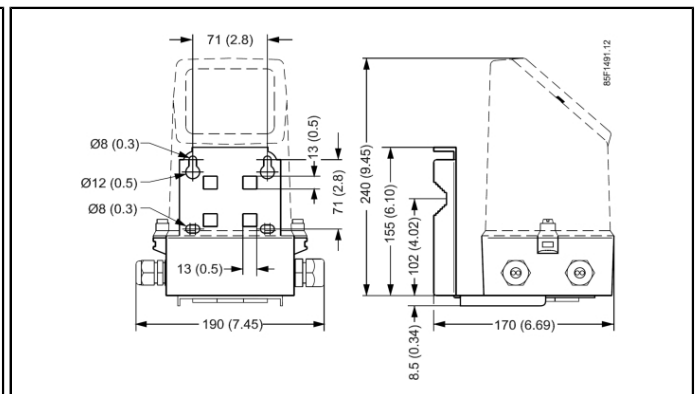
### TECHNICAL DATA

Nominal flowrate	Q <sub>p</sub>	m <sup>3</sup> /h	200	300	500	800	1,120	1,500
Nominal diameter	DN	mm	125	150	200	250	300	350
Overall length	L	mm	350	500	500	600	500	550
Minimum flow rate	Q <sub>i</sub>	m <sup>3</sup> /h	2	3	5	8	11.2	15
Maximum flow rate	Q <sub>s</sub>	m <sup>3</sup> /h	280	420	700	1,120	1,560	2,100
Flanges nominal pressure	PN	bar	16 / 40	16 / 40	16 / 40	16 / 40	16 / 25	16 / 25

### DIMENSIONS



Compact version



Separated converter version, wall mounting

### DIMENSIONS FLANGED VERSION PN 16

Nominal flowrate	Q <sub>p</sub>	m <sup>3</sup> /h	200	300	500	800	1,120	1,500
Nominal diameter	DN	mm	125	150	200	250	300	350
Overall length	L	mm	350	500	500	600	500	550
Height	A <sub>1</sub>	mm	380	390	414	440	466	495
Flanges nominal pressure	PN	bar	16	16	16	16	16	16
Flange diameter	D	mm	250	285	340	405	460	520
Hole circle diameter	K	mm	210	240	295	355	410	470
Screw hole diameter	D1	mm	18	22	22	26	26	26
Number of screw holes	pcs		8	8	12	12	12	16
Weight	kg		18	28	38	60	66	94

Diehl Metering S.A.S. - Head Office - 67 rue du Rhône - BP 10160 - FR-68304 Saint-Louis Cedex - Phone: + 33 (0)3 89 69 54 00 - Fax: + 33 (0)3 89 69 72 20 - metering-France-info@diehl.com - www.diehl.com/metering  
 International Sales - 67 rue du Rhône - BP 10160 - FR-68304 Saint-Louis Cedex - Phone: + 33 (0)3 89 69 54 21 - Fax: + 33 (0)3 89 69 54 22 - metering-France-export@diehl.com  
 Subject to technical adjustments.

# SHARKY FUE 380

## ULTRASONIC FLOW SENSOR

### DIMENSIONS FLANGED VERSION PN 25 AND PN 40

Nominal flowrate	Q <sub>p</sub>	m <sup>3</sup> /h	200	300	500	800	1,120	1,500
Nominal diameter	DN	mm	125	150	200	250	300	350
Overall length	L	mm	350	500	500	600	500	550
Height	A <sub>1</sub>	mm	380	390	414	440	466	495
Flanges nominal pressure	PN	bar	40	40	40	40	25	25
Flange diameter	D	mm	270	300	375	450	485	555
Hole circle diameter	K	mm	220	250	320	385	430	490
Screw hole diameter	D1	mm	26	26	30	33	30	33
Number of screw holes		pcs	8	8	12	12	16	16
Weight		kg	24	34	55	91	81	121