

Ultrasonic flow-meter BAMOFLONIC



PSU version (ND 10 to 25)



HD-PE version (ND 32 to 50)

- 7 models ND 10 to ND 50
- Flow ranges from 0.3 up to 900 l/min
- Analogue output: 0/4-20 mA
- Digital output to set on site
- Back-lighted display

APPLICATIONS

Flow measurements on conductive and non-conductive liquids in various industrial, cosmetic and food applications.
Examples: Demineralized water, liquid cosmetics, bases, acids, etc.

DESCRIPTION

BAMOFLONIC applies propagation ultrasonic waves principle to measure the speed of a liquid, then to calculate the corresponding flow-rate. Therefore, It is convenient for liquids electrically conductive or not.
Important: The liquid must be clear and homogeneous.

The absence of a moving part ensures its operation without mechanical wear. Wet parts are of PSU or of HD-PE

TECHNICAL FEATURES

Power supply	24 V DC / 3.6 W
Outputs	Digital output: to set as pulses (0.1 to 3000 ml/pulse) or empty tube alert, flowing back alarm, dosage, or min./max. flow alarm. Analogue output: 0/4 ... 20 mA, scalable
Display	Alphanumeric back lighted LCD display
Connexions	Connector M12 -5 pins (supplied)
Accuracy	±2 % of reading and ±3 mm/s
Repeatability	≤ 0,5 %
Liquid temperature limits:	0... +80 °C for version in PSU, ND 10 to 25 0... +50 °C for version in HD-PE, ND 32 to 50
Pressure limits	16 bar max. at 20 °C (PSU, ND 10 & 15) 10 bar max. at 20 °C (PSU, ND 20 & 25) 7 bar max. at 20 °C (HD-PE, ND 32 to 50)
Protection	IP 67 for PSU ND 10 to 25; IP 65 for HD-PE ND 32 to 50
Fittings	BSP threads (standard) PVC Unions (see accessories) <i>Other fittings on request: Straight tube, Clamp DIN 11864</i>
Materials	PSU (Polysulfone): ND 10 to 25; 2 EPDM flat seals HD-PE: ND 32 to 50; 2 EPDM flat seals
Options	
Digital input	To start a dosage (Connector M12 - 8 pins)
Accuracy	±1 % of reading and ±3 mm/s, ±6 mm/s for NB 10 - 3/8" (according to VDI/VDE 2642)
Remote interface	To set all parameters (Adaptor USB/ RS485 with software), or remote display module

EC conformity: The instrument meets the legal requirements of the current European Directives

Accessories:

- Kit of PVC fittings for solvent welding
 - Relay, for interfacing a dry contact
- See table Codes and references

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Ultrasonic flow-meter
BAMOFLONIC

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CODE NUMBERS AND REFERENCES

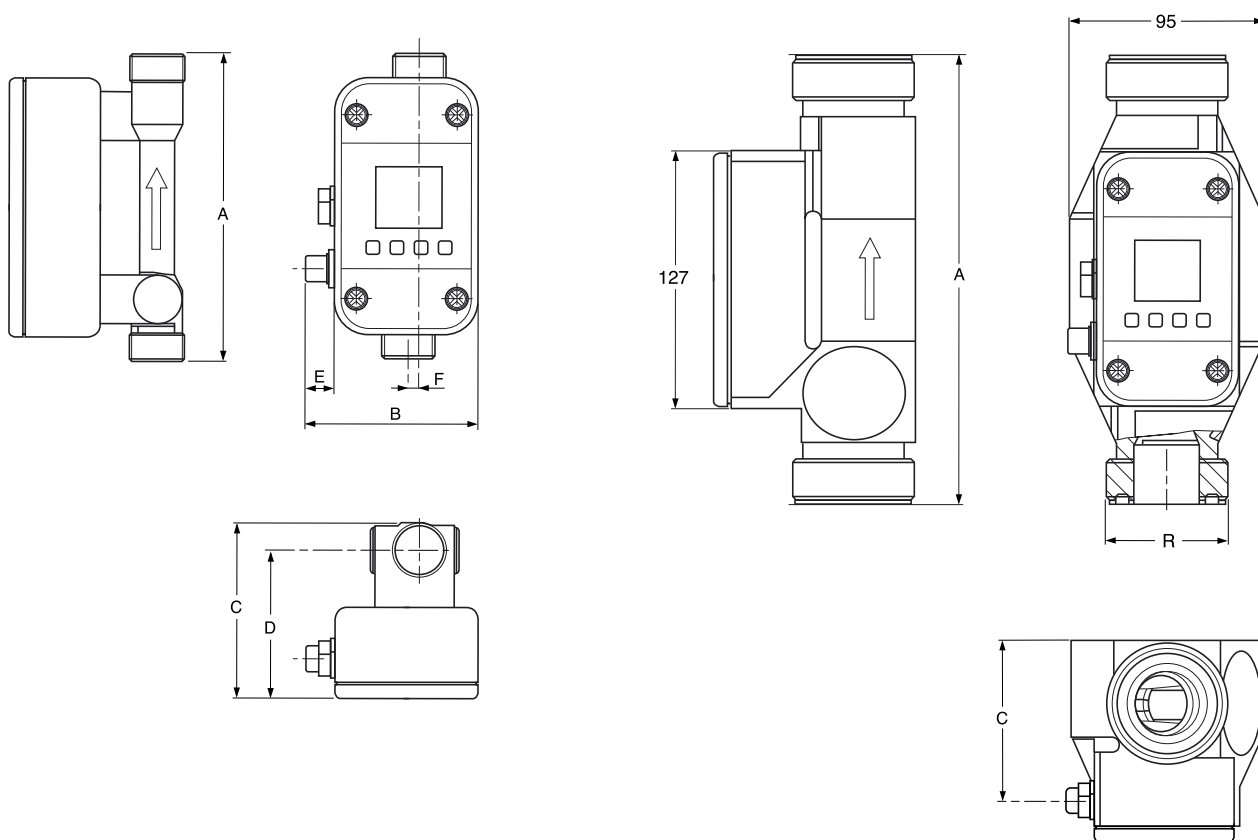
Code	Reference	ND	Measuring scale		Fittings	
			l /min	l /h	BSP (standard)	PVC (kit)
776 010	BAMOFLONIC DN10	10	0.3 ... 21	18...1260	1/2"	776 910
776 015	BAMOFLONIC DN15	15	0.9 ... 36	54...2160	3/4"	776 915
776 020	BAMOFLONIC DN20	20	3.5 ... 60	210...3600	1"	776 920
776 025	BAMOFLONIC DN25	25	5.0 ... 240	300...14 000	1 1/4 "	776 925
776 027	BAMOFLONIC DN32	32	6...300	360...18 000	2"	-
776 028	BAMOFLONIC DN40	40	24...500	1440...30 000	2 1/4"	-
776 029	BAMOFLONIC DN50	50	45...900	2700...54 000	2 3/4"	-

Accessory

251 260	RSZE*	Relay for dry contact, 24 V DC; Outputs: 2 changeover contacts, 8 A, 260 V AC, status display by LED
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* To connect to the digital output configured as NPN or PNP.

DIMENSIONS



ND	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	Mass (kg)
10	147	84	83	70.5	15	5	0,332
15	147	84	84.5	71.1	15	5	0,344
20	160	84	94.2	77.6	15	5	0,414
25	168	84	98.5	77.6	15	5	0,454
32	220	97	99				1,000
40	220	97	122				1,100
50	220	97	131				1,200

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