BEMA Instruments info@bemainstruments.com - www.bemainstruments.com

transit time ultrasonic flowmeter

For conductive and non-conductive liquids

Measure range <0,2m3/h ÷ >400000 m3/h

Accuracy ± 1%

Clamp on IP68 sensors also for high temperatures

Pipe dimension range: DN20 ÷ DN4000

Datalogger via SD card or via MODBUS

Heat meter



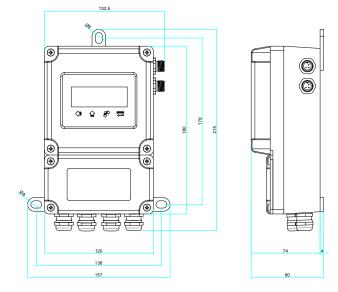
These flowmeters operate on the ultrasonic pulses transit time difference principle. The great advantage is the mechanical installation, because it is not necessary to cut the pipe. The sensors are simply clamped on the outer pipe surface, for this reason the pressure and the liquid aggressiveness to be measured are not a problem for the fl owmeter. The system measures in a bidirectional way and is suitable for clean or slightly dirty liquids.

TECHNICAL FEATURES

Pipe dimension range DN20 ÷ DN4000 **Transmitter protection class** IP66 Transducer protection class IP68 Display backlighted 2x20 alphanumeric digit Keypad 4 keys **Housing material** aluminium **Displayed data** instantaneous flowrate; flow totalizer Installation wall mounting **Analog Output** Sel. 4+20mA o 0+20mA Accuracy ±1% Repeatability ±0,2% Linearity ±0,5% **Basic measurement period** 500ms Serial port RS485

Communication protocol MODBUS RTU or ASCII+ (opz.) Data logger on SD card (opt.) or via MODBUS Programmable frequency output 0-5000Hz **Relay output** n.1 for pulse totalizer or alarm Medium speed range ±12m/s Unit working temperature -20÷60°C Instrument humidity non condensing 85% RH (40°C) Transducer working temperature TS-2 / TM-1 / TL-1 -30 ÷ +90°C; TS2H / TM1H -30 ÷ +160°C; TC-1/ TLC2 -40 ÷ +160°C PT100 sensors working temperature -40°C +160°C Transducer cable std. length 5mt PT100 sensor cable std. length 15mt **Power Supply** 230Vac o 10÷30Vdc (depending on model) Dimensions 200x120x77mm Weight without sensors 1Kg

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Transit time ultrasonic flow meter

For conductive and non-conductive fluids. Wall mounting - Speed range: max \pm 12m/s - Simultaneous display of flowrate and cumulative volume data

Available with heat meter option Output: 4+20mA + 1 open collector + 1 relay Accuracy not better ± 1% Transducers standard connection cable 5 mt

Protection degree: transmitter IP66 - transducers IP68 Supplied with grease and steel hose clamps for transducers fixing up to DN900

	Version		
	С	Heat meter - with couple of cables L= 15 m (540Z084A)	
	D	Heat meter with couple of cables L= 15 m (540Z084A) + datalogger on 8GB SD card	
	U	Datalogger on 8GB SD card	
-	W	Standard	
	Z	Special	
	Power supply		
	Α	230Vac	
	В	115Vac	
	С	24Vac	
	D	10÷30 Vdc	
	Z	Special	
	Flow transducers		
	A0	None	
-	TS-2	Clamp-on type for pipes DN 20+100 / -40+90°C (additional cable eur 8,00 each mt - max 200 mt)	
-	TM-1	Clamp-on type for pipes DN 50+700 / -40+90°C (additional cable eur 8,00 each mt - max 200 mt)	
-	TL-1	Clamp-on type for pipes DN 300+4000 / -40+90°C (additional cable eur 8,00 each mt - max 200 mt)	
-	TS2H	Clamp-on type for pipes DN 20+100 - high temperature -40+160°C (additional cable eur 8,00 each mt - max 200 mt)	
	TM1H	Clamp-on type for pipes DN 50+700 - high temperature -40+160°C (additional cable eur 8,00 each mt - max 200 mt)	
	TL1H	Clamp-on type for pipes DN 300÷4000 - high temperature -40÷160°C (additional cable eur 8,00 each mt - max 200 mt)	
	TC-1	Insertion type for pipes with max thickness 20mm -40+160°C (additional cable eur 8,00 each mt - max 200 mt)	
	TLC2	Insertion type for pipes with max thickness 80mm -40+160°C (additional cable eur 8,00 each mt - max 200 mt)	
	TCCP	Insertion type for CCP pipes with max thickness 80mm -40+160°C (additional cable eur 8,00 each mt - max 200 mt)	
	Z999	Special	
	Additional output		
	4	RS485 - MODBUS	
	Ν	None	
	Z	Special	
	Accessories		
	Α	None	
-	В	MODBUS communication software(010F109A)	
	Е	Couple of PT100 class A in MGO with SS316 sheat ø 3mm. M12 connector - L= 150 mm	
	Н	Couple of SS316 wells for PT100 class A in MGO with sliding fitting. Process connection G ¼ M - L= 50 mm	
	L	Couple of SS316 wells for PT100 class A in MGO with sliding fitting. Process connection G ¼ M - L= 100 mm	
	Р	Couple of surface mounting brass plates for PT100 class A in MGO ø 3mm	
	Q	Couple of metallic hose clamps for PT100 for up to DN900 pipes (590A010A)	
	Z	Special	