FLOWave SAW Flowmeter

8098

- Without any parts in the measuring tube
- Conforms to hygienic requirements CIP/ SIP capable
- Ideal for liquids with low or no conductivity
- Compact, lightweight and low energy consumption
- Digital communication, parameter setting via communicator, display and Wi-Fi

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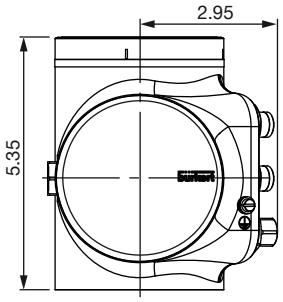
FOR DATA SHEET

The Type 8098 FLOWave flowmeter from Burkert opens up entirely new possibilities for hygienic and process applications. With its unique SAW technology (Surface Acoustic Waves), the device has no sensor elements in the measuring tube and makes it easy to fulfil very high hygienic requirements. This is achieved by using: - suitable stainless steel materials - a measuring tube free of any wetted parts except for the actual tube - the ideal outer hygienic design. FLOWave offers a range of integrated functions, including the advantages of flexibility, ease of cleaning, compact dimensions, lightweight, easy installation and handling, and is compliant with numerous standards. Optimal measurement results can be achieved with homogeneous, air and solid free liquids. Integrated viscosity compensation can be used for higher viscous liquids. Gas and steam cannot be measured; however, their flow does not have any negative effect on the device or its operation. Other liquids flowing through again afterwards are measured correctly as before. Special functions derived from further process values (density factor, acoustic transmission factor) offer additional information about the particular liquid in use (for details, see data sheet).

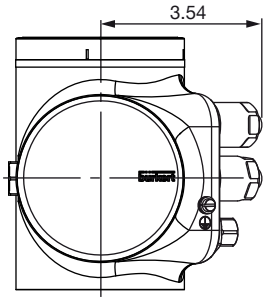
Technical Data

Fluids	Non dangerous liquids complying with article 4 §1 of 2014/68/EU directive
Ambient temperature	-4 °F to 140 °F
Process connection/pipe size acc. to DIN 32676 series C (ASME BPE)	¾", 1", 1½", 2"
Electrical connections	2 x M20 x 1.5 cable glands and 1×5 pin M12 male fixed connector (A-coded) or 2×4 pin M12 female fixed connectors (D-coded) and 1×5 pin M12 male fixed connector (A-coded)
Sensor housing	Stainless steel 304/1.4301
Blind cover	Stainless steel 304/1.4301
Seal	VMQ silicone
Surface finish[4)]	
Measurement tube (inner surface)	Ra < 0.8 µm (32 µin.) or Ra < 0.4 µm (15 µin.) (electro-polished)
Meas. tube (outer surface), housing	Ra < 1.6 µm (excluding welding seams)
Display module	2.4", monochrome graphic (240 × 160 pixels) German, English, French languages
Temperature measurement	
Measurement range	-4 to 284 °F (-20 to +140 °C)
Measurement deviation for	
T° ≤ 100 °C	±1 °C
100 °C < T° < 140 °C	±1.5 %
Refresh time	1 s

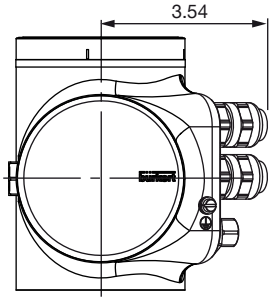
Transmitter SE98 Dimensions [inch]



Ethernet version with 2 x 4 pin M12 female connectors and 1 x 5 pin M12 male connector



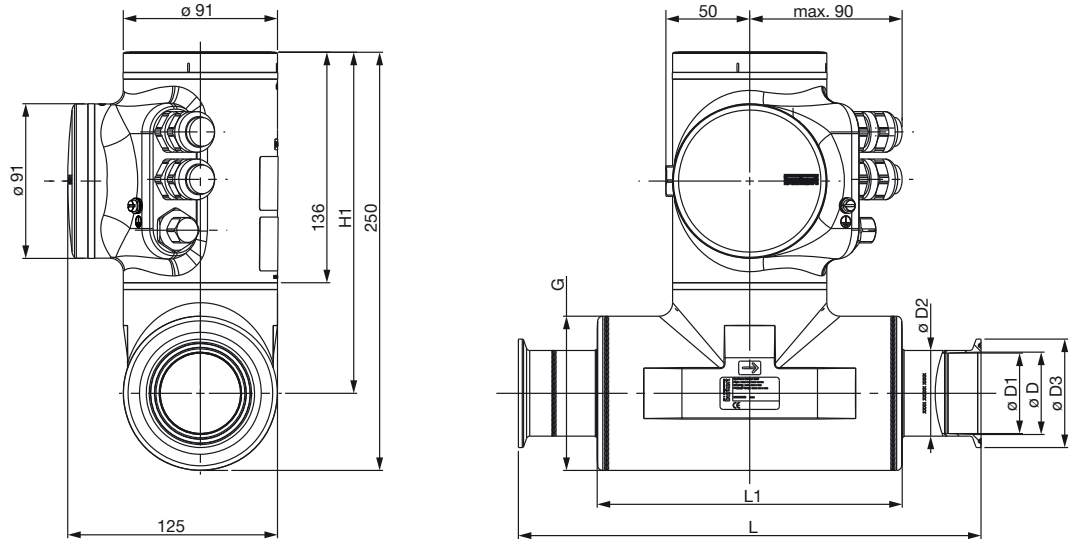
with 2 x M20 x 1.5 cable glands in stainless steel and 1 x 5 pin M12 male connector



with 2 x M20 x 1.5 cable glands in nickel plated brass and 1 x 5 pin M12 male connector

Dimensions [inch] (see datasheet for details)

Flowmeter 8098 with clamp according to DIN 32676 series



Clamp/pipe size	Standard		H1	D1	D	D2	D3	G	L1	L
	Clamp	Process pipe								
3/4"	DIN 32676 series C (ASME BPE)	DIN 11866 series C (ASME BPE)	8.66	0.62	0.62	0.75	0.98	2.37	4.13	5.62
1"	DIN 32676 series C (ASME BPE)	DIN 11866 series C (ASME BPE)	8.66	0.87	0.87	1	1.98	2.37	4.13	5.62
1 1/2"	DIN 32676 series C (ASME BPE)	DIN 11866 series C (ASME BPE)	7.87	1.37	1.37	1.5	1.98	3.58	7.08	10.74
2"	DIN 32676 series C (ASME BPE)	DIN 11866 series C (ASME BPE)	7.87	1.87	1.87	2	2.51	3.58	7.08	10.74

Ordering Chart

NOTE: To set up a device without a display, please use the USB-büS interface, Type 8920 (has to be ordered separately). Device with Wi-Fi interface available on request.

Clamp acc. to DIN 32676 series C (ASME BPE) process connection for pipe acc. to DIN 11866 series C (ASME BPE)

All these versions are 3A and EHEDG certified and equipped with the special functions ATF (acoustic transmission factor) and DF (density factor)

Clamp and pipe size	Measurement tube (inner surface)	Operating voltage	Maximal flow rate	Electrical connection	Display	Item no.
3/4"	0.8 µm	12-35 V DC	7 m³/h	2 cable glands* M20 × 1.5 + 1 × 5 pin M12 male connector	Yes	566 203
	0.8 µm				No	566 207
	0.4 µm				Yes	566 211
	0.4 µm				No	566 215
	0.4 µm				Yes	569 675**
	0.4 µm			2 × 4 pin M12 female connectors + 1 × 5 pin M12 male connector (Ethernet version)	Yes	569 679
1"	0.8 µm	12-35 V DC	14 m³/h	2 cable glands* M20 × 1.5 + 1 × 5 pin M12 male connector	Yes	566 204
	0.8 µm				No	566 208
	0.4 µm				Yes	566 212
	0.4 µm				No	566 216
	0.4 µm				Yes	569 676**
	0.4 µm			2 × 4 pin M12 female connectors and 1 × 5 pin M12 male connector (Ethernet version)	Yes	569 680
1 1/2"	0.8 µm	12-35 V DC	35 m³/h	2 cable glands* M20 × 1.5 + 1 × 5 pin M12 male connector	Yes	566 205
	0.8 µm				No	566 209
	0.4 µm				Yes	566 213
	0.4 µm				No	566 217
	0.4 µm				Yes	569 677**
	0.4 µm			2 × 4 pin M12 female connectors and 1 × 5 pin M1 male connector (Ethernet version)	Yes	569 681
2"	0.8 µm	12-35 V DC	64 m³/h	2 cable glands* M20 × 1.5 + 1 × 5 pin M12 male connector	Yes	566 206
	0.8 µm				No	566 210
	0.4 µm				Yes	566 214
	0.4 µm				No	566 218
	0.4 µm				Yes	569 678**
	0.4 µm			2 × 4 pin M12 female connectors and 1 × 5 pin M12 male connector (Ethernet version)	Yes	569 682

*Cable gland in nickel plated brass
**UL Listed