

# Low flow-rate meter MICRO-STREAM



- Pulse output
- Accuracy  $\pm 2\%$
- From 0.5 to 300 l/h
- Version for lubricating oil, diesel  
Version for water, weak acids, bases
- Max. pressure 5 bar

## APPLICATIONS

Additive control, measurement of consumption, dosing, wherever a measurement of very low flow is necessary.

## CODE NUMBERS AND TECHNICAL FEATURES

In the case of a power supply greater than 12 V DC, a protection of the MICROSTREAM circuit is mandatory.  
This protection can be ensured by a PNP/ NPN converter to limit the supply voltage.

Type	OF-05 ZAT-AO	OF-05 ZZT-AO	OF-10 ZAT-AO	OF-10 ZZT-AO
Code	782 105	782 205	782 110	782 210
Liquid	Lubricating oil Diesel	Water Low % acids Low % bases	Lubricating oil Diesel	Water Low % acids Low % bases
Accuracy	$\pm 2\%$ F.S. (On request: $\pm 1\%$ )			
Pressure	Max. 5 bar			
Ambient	5 ... +65 °C			
Ranges	0.3 ... 0.8 cPo	5.0 ... 50 l/h	0.3 ... 0.8 cPo	40 ... 300 l/h
	0.8 ... 2.0 cPo	3.0 ... 50 l/h	0.8 ... 2.0 cPo	20 ... 300 l/h
	2.0 ... 5.0 cPo	1.0 ... 50 l/h	2.0 ... 5.0 cPo	15 ... 300 l/h
	5.0 ... 200 cPo	0.5 ... 50 l/h	5.0 ... 200 cPo	10 ... 300 l/h
Pulse	0.46 cm <sup>3</sup> /pulse		2.5 cm <sup>3</sup> /pulse	
Voltage	Power supply 3 ... 12 V DC			
Output	Square pulse; voltage output			
Fittings	BSP-M 1/4"		BSP-M 1/2"	
Housing	PPS	PPS	PPS	PPS
Rotor				
Seals	NBR	FPM	NBR	FPM
Axis	AIS 304	SiC	AISI 304	SiC

## ASSOCIATED ELECTRONICS

For continuous measurement, or dosing, these sensors are to be associated with the BCP 48 (data-sheet 289-03), or BIF 6040 12 V DC (data-sheet 282-01).

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**MICRO-STREAM**

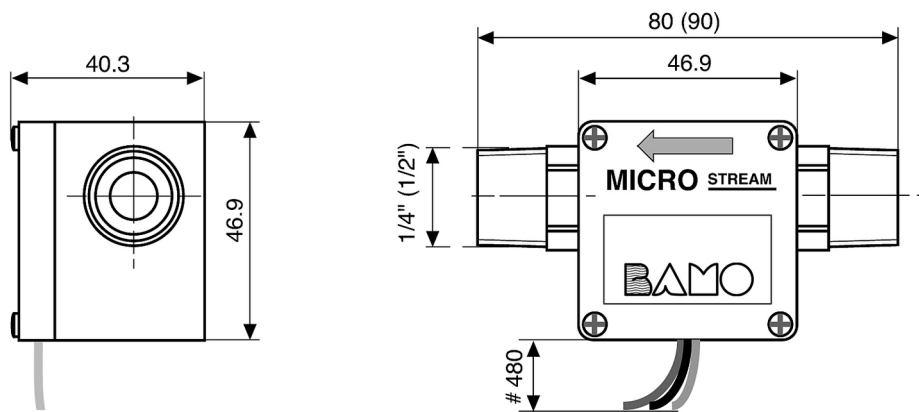
17-03-2021

D-782.01-EN-AA

**DEB**

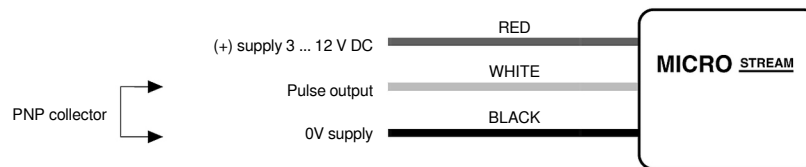
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## DIMENSIONS

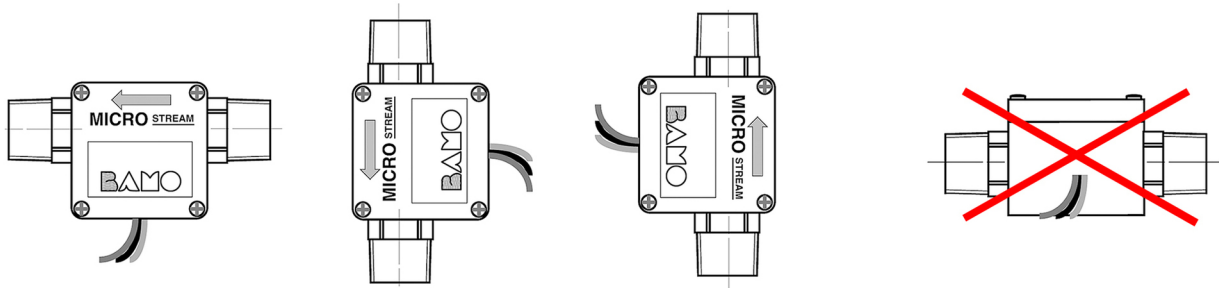


(Dimensions in parenthesis refer to the OF-10 Z models)

## CONNECTIONS



## MOUNTING



It is recommended to install the sensor as indicated above to obtain a flow measurement within the tolerance limits indicated on page 1.

- It is recommended to use a filter upstream of the sensor.
- The maximum pressure drop is 40 mbar for OF-05 and 100 mbar for OF-10 at maximum flow rate.
- The fluid must flow in the direction indicated by the arrow on the sensor.
- Avoid mechanical stress on the sensor fittings, an assembly with flexible hoses is recommended.
- Protect the sensor against frost (Min. 5 ° C) and sunlight.
- Keep the sensor far away from magnets and any magnetic field.

### Notes about the liquids:

- The liquid must be free of particles, the use of a filter upstream is recommended.
- Magnetic metal particles are prohibited.
- The operating conditions should not exceed the pressure and temperature limits.
- The liquid must be chemically compatible with the materials.

On request, our technical department may help you about chemical compatibilities.

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