

# Air bubbling level transmitter BAMOBUL



- Level measurement on open channel
- For wastewater
- Direct interface to BAMOPHAR 759
- Range: 0 to 500 mm Water Column
- Output: 4-20 mA

## APPLICATIONS

- Level measurement for Venturi or weir plates.

## DESCRIPTION

This application requires a highly accurate level measurement due to an exponential relation between flow and water level. BAMOBUL combines an air generator with a highly accurate pressure transmitter. On the air circuit, the sensor measures the pressure necessary for an effective escape of air bubbles. The pressure measured is then equal to the hydrostatic pressure of the column of liquid at the point of evacuation of the air.

In order to minimize the measurement error due to a variation in the air flow between the high and low levels, the injection pump includes a micro-valve. End-user has access to the adjustment of "0 flow rate" and to full measurement scale. The BAMOBUL delivers an analogue signal of 4-20 mA.

BAMOBUL is wall mount; Protection IP 55. The air tubing fits through instant fittings for rilsan tube Ø 6x4 (between main unit and the probe). Electrical connections: through screw terminals, protected inside the IP55 cabinet. The probe is in AISI 316 L, adjustable in depth by a sliding fitting. A stainless steel plate may be fixed on the channel.

## TECHNICAL FEATURES

### Pressure sensor - Level ranges

Measuring ranges 0... 100 / 0 ... 300 / 0 ... 500 mm WC  
(measuring range to specify when ordering)

Temperature limits: 0... +50 °C

Accuracy ≥ 1 %

Response time < 1 s

### Air compressor

Flow rate Empty channel: 250 l/h

Pressure limit: 50 mbar (about 500 mm WC)

Pump body ABS

Air flow adjustment: From 0 to 100 %; Regulated for a constant flow rate

Power supply: 230 V - 50/60 Hz - 8 VA

### Specifications

Settings of 0 and F.S. Push button and LED indicator

Default detection Clogged or cut tubing

Alarm output: Changeover contact; 230 V / 5 A

Sensor supply Through the main unit

Analogue output 4-20 mA (active signal); Max. 600 Ω; Limited to 23 mA

Main power supply 230 V - 50/60 Hz

Cabinet IP 55 - Wall mounting

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Air bubbling level transmitter  
**BAMOBUL**

19-03-2020

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**DEB**

**758-02/1**

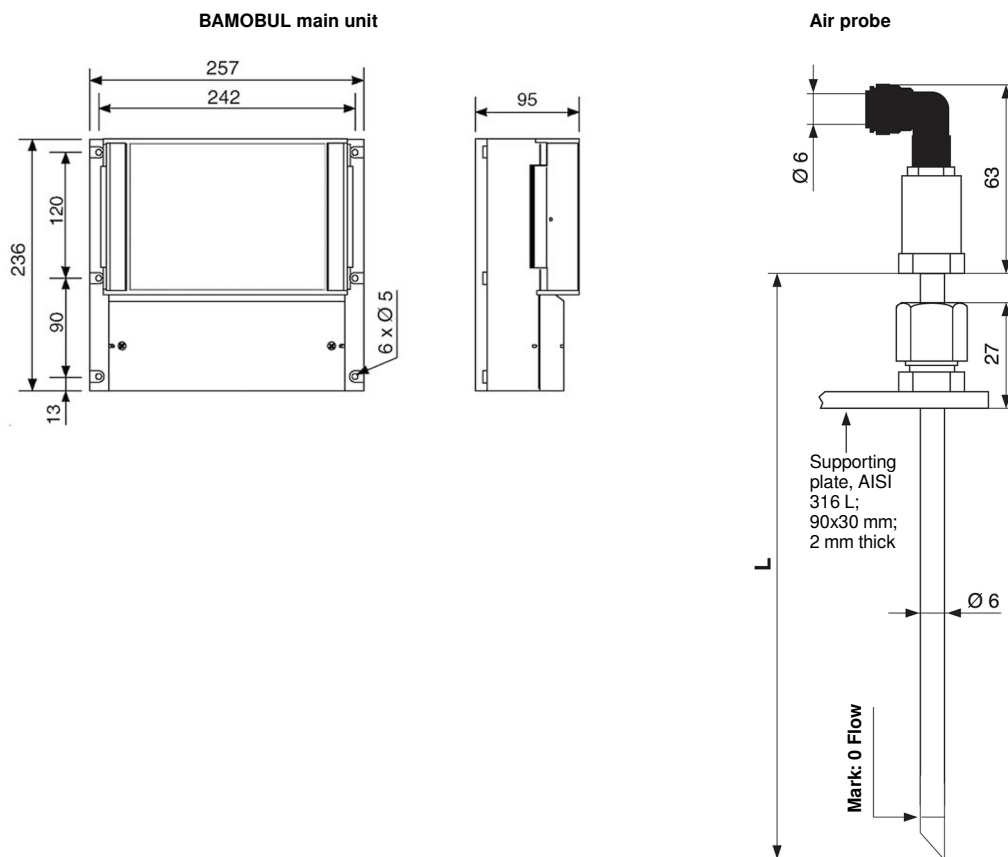
## Air probe:

AISI 316 L; Channel mounting with its supporting plate, adjustable fitting, BSP 1/2", secured by counter-nut.  
The height is adjusted on site (position mark).  
Air tubing fitting for Rilsan tube  $\varnothing$  6x4

## CODE NUMBERS AND REFERENCES

Code	Reference	Description
758 121	BAMOBUL 758 MA	Blind wall cabinet - 4-20 mA output
758 010	CAB1	Air probe AISI 316 L; $\varnothing$ 6 mm; L = 220 mm
758 011	CAB2	Air probe AISI 316 L; $\varnothing$ 6 mm; L = 400 mm
758 012	CAB3	Air probe AISI 316 L; $\varnothing$ 6 mm; L = 515 mm
758 013	CAB4	Air probe AISI 316 L; $\varnothing$ 6 mm; L = 690 mm
758 014	CAB5	Air probe AISI 316 L; $\varnothing$ 6 mm; L = 870 mm
758 017		Rilsan tube $\varnothing$ 6x4 (per meter, at requested length)

## DIMENSIONS



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