

Air bubbling level transmitter BAMOBUL



- Level measurement on open channel
- For dirty/heavy wastewater
- In combination with BAMOPHAR 759
- Range: 0 to 500 mm Water Column
- 4-20 mA analog output

APPLICATIONS

- Level measurement in open channel Venturi or weir.

DESCRIPTION

Open-channel measurement requires highly accurate level measurement, as the relationship between level and flow is exponential. This measurement system combines an air generator with a highly accurate pressure sensor. On the air circuit, a sensor measures the pressure required for the effective release of air bubbles. The pressure measured is then equal to the hydrostatic pressure of the liquid column at the air discharge point.

To minimize measurement error due to air flow variations between high and low levels, the injection pump features a microvalve. The "0" and full scale settings are accessible to the user. The level can then be transmitted as a 4-20 mA signal.

The BAMOBUL level sensor consists of an IP 55 wall-mounted enclosure housing the pressure sensor, power electronics and air generator. Pneumatic connections are provided by instant fittings for Ø 6x4 rilsan tubing between the housing and the injection pipe. Electrical connections are made via a screw terminal block in a weatherproof enclosure. The 316 L stainless steel injection pipe features a sliding adjustment device. It is secured by a stainless steel plate to be fixed to the channel.

TECHNICAL FEATURES

Pressure sensor - Level ranges

Measuring ranges	0...100 to 500 mm CE (See table of codes and references)
Permissible temperature	0... +50 °C
Measurement error	< 1 %
Response time	< 1 s

Air supply pump

Flow rate	250 l/h unloaded
Max. pressure	50 mbar (approx. 500 mm w.c.)
Pump housing	ABS
Airflow adjustment	From 0 to full flow - Constant flow control
Power supply	230 V / 50-60 Hz - 8 VA

Associated electronics

0 and full-scale settings	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 - Max 600 Ω - Limited to 23 mA
Main power supply	230 V / 50-60 Hz
Housing	IP 55 - Wall mounting

BAMO INTERNATIONAL

22, Rue de la Voie des Bans · Z.I. de la gare · 95100 ARGENTEUIL

Tel +33 (0)1 30 25 83 20 Web www.bamo.eu

Fax +33 (0)1 34 10 16 05 E-mail export@bamo.fr

Air bubbling level transmitter
BAMOBUL

14-03-2025

D-758.02-EN-AD

DEB

758-02/1

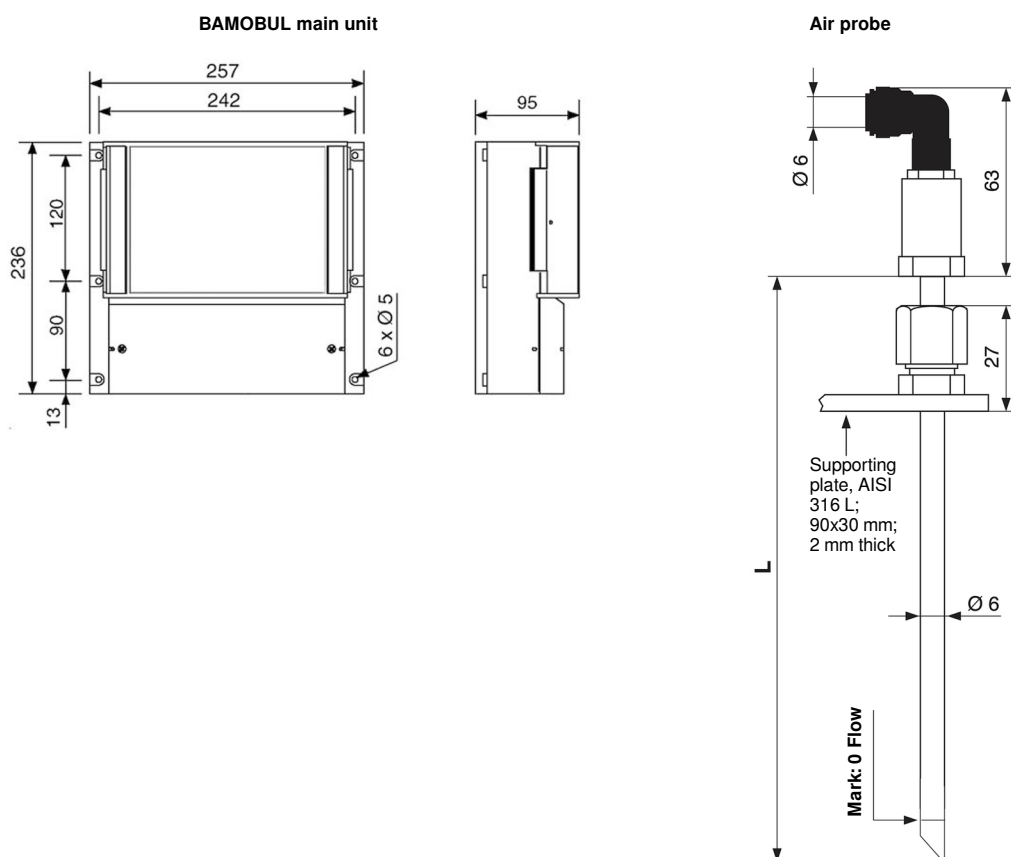
BUBBLING INJECTION CANE

Made of 316 L stainless steel, it is designed to be attached to a support by a ½" MG connection, with locknut. Height adjustment is by means of a sliding connector and a position marker. Air inlet is provided by a fitting for Rilsan tube Ø 6x4

CODE NUMBERS AND REFERENCES

Code	Reference	Description
758 121	BAMOBUL 758 MA	Blind wall housing - 4-20 mA output - Specific range
758 130	BAMOBUL 758 MA - 150 mm	Blind wall housing - 4-20 mA output - Range 150 mm
758 135	BAMOBUL 758 MA - 300 mm	Blind wall housing - 4-20 mA output - Range 300 mm
Bubbling injection cane (Includes: Rilsan tube, 5-meter length)		
758 010	CAB1	Length L = 220 mm
758 011	CAB2	Length L = 400 mm
758 012	CAB3	Length L = 515 mm
758 013	CAB4	Length L = 690 mm
758 014	CAB5	Length L = 670 mm
Spare parts		
758 017		Rilsan tube Ø 6x4 (per meter)

DIMENSIONS



BAMO INTERNATIONAL

22, Rue de la Voie des Bans · Z.I. de la gare · 95100 ARGENTEUIL
 Tel +33 (0)1 30 25 83 20 Web www.bamo.eu
 Fax +33 (0)1 34 10 16 05 E-mail export@bamo.fr

Air bubbling level transmitter
BAMOBUL

14-03-2025

D-758.02-EN-AD

DEB

758-02/2