



# Air Bubble Protection System

Automatically detects air inclusions in the medium and discharges them

**ABPS**

## Highlights / Benefit

- Automatic detection of air bubble inclusions in the medium and saving material when discharging
- Teach-process will autonomously identify relevant parameters
- Monitoring of process and limit values
- External control via SPS/PLC possible

# Protect your system and make sure you have the optimum application quality

The ABPS detects air inclusions in media and transfers them outwards.

Gas inclusions in a medium can abruptly explode when leaving the dosing valves; this may not only cause a reduction in dosing quantity and an incorrect application image; in some cases, it can also damage the dosing valves and the system. The Air Bubble Protection System protects your system. It will automatically detect gas and air inclusions in the medium and will reliably discharge these. It is a compact and very efficient system which was particularly designed for conditioning liquid and viscous media. The device allows you a continuous monitoring of the volume flow and reduces material losses to a minimum, thanks to its detection and separation precision. When in use, the Air Bubble Protection is able to monitor different process values and will signal any exceeding or falling-below of pre-defined limit values. The system also has a display which shows the operating status or events and is used for direct configuration. A password protection will prevent unauthorized changes. As a module of the Modular Series, the ABPS has a compact design, can be easily installed and can be integrated in any dosing and application system. Above that, flanging it to other modules of the series is fast and easy.

Follow the QR-Code for additional product info



## Technical Data

Operating pressure  
max. 10 [bar]

Volume flow  
max. 100 [cm<sup>3</sup>/min]

Operating temperature  
5 to 50 [°C]

Dimensions (L x W x H)  
153 x 79 x 138,5 [mm]

Digital outlets  
4 X 24 [VDC]

Field bus  
RS485 Modbus RTU

Detectable air bubbles  
min. Ø 1,3 [mm]

Walther Module length  
3 [TE]

## Optional / Accessories



**Plug-in Cube**  
Volume limitation



**Draining line**  
Material discharge



**Connecting line**  
Current connection



**Module Connector Set**  
Combination



**Holding angle**  
Fastening