

**MEMPRO® BL.**

## **Automatic venting module**



## **Aeration Controller for the MEMPRO Fill-Level Measuring Instrument**

### **INSTRUCTIONS MANUAL**

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VENTING MODULE

**MEMPRO® BL**

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## Safety Precautions

- Installation, initial start-up and maintenance may only be performed by trained personnel
- The device must be disconnected from all sources of power during installation and maintenance work
- The device may only be operated under the conditions specified in the operating instructions

## Functions Description

The MEMPRO® BL automatic aeration controller is connected to the MEMPRO® fill-level measuring instrument with air supply inlet.

The MEMPRO® fill-level measuring instrument, functions in accordance with the Pitot-static principle, i.e. the current fill-level is ascertained on the basis of hydrostatic pressure measured in a tube submerged in the liquid.

Thanks to the MEMPRO® BL automatic aeration controller, inaccuracies which may result from temperature fluctuations and gases given off by liquids, are compensated.

Beyond this, deposition of contaminants in the measuring tube is prevented as well.

## Technical Data

Supply power:	230 V ac, option for 24 V dc $\pm$ 10%
Connected load:	Approx. 10 W / 10 VA
Ambient temperature:	-15 to +60 °C
Housing:	PC field housing
Dimensions	230 V version: 188 x 210 x 120 mm 24 V dc version: 170 x 161 x 97 mm
Outlet:	Purge air to port at MEMPRO... fill-level measuring instrument with air supply inlet
Purge air pressure:	approx. 2.5 bar
Tube connector:	For PVC tubing, 4 x 1 mm

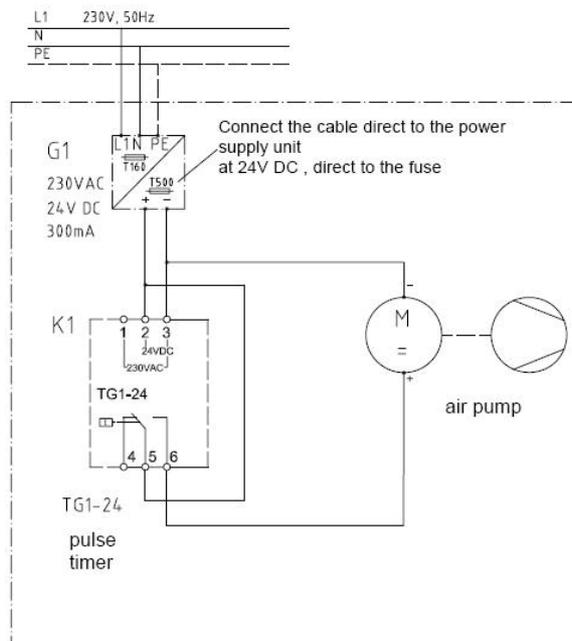
**CE Mark:** In accordance with directives 2006/95/EG and 89/336/EWG

## Installation

The MEMPRO® BL automatic aeration controller can be installed at a distance of up to 10 metres from the MEMPRO® with air supply port, but if at all possible not in proximity to exhaust openings from systems with aggressive media (aggressive air is otherwise drawn in).

- Push the air tube through the Pg fitting on the right-hand side (cut the tube at a slight angle to this end if necessary), and then connect it to the air outlet on the pump.
- The tube can be secured to the nozzle with the included hose clamp.

## Electrical Connections



## **Initial Start-Up**

- Check supply power (see serial plate).
- Set the clock generator.

Set pump-time (on-time) such that air bubbles are discharged from the bottom end of the measuring tube for 3 to 5 seconds (depending upon the length of the measuring tube and the air supply tube) during each pumping operation.

### **Off-time:**

In the case of liquids which may plug the tube with sediment, pumping should be activated as required.

Measured value drift (due to temperature changes and/or fluid vapours) is reduced by means of frequent pumping if the liquid is subject to temperature fluctuations.

### **Note:**

The pumping cycle for the aeration controller is set at the factory to 30 seconds pumping time and 60 minutes off -time.

As a rule, off-times of less than 15 minutes are not advisable, because they reduce the pump's service life.

For most applications it is enough to run the pump once or twice a day for 30 seconds.

## **Maintenance**

The MEMPRO® BL aeration controller is maintenance-free if used for its intended purpose.



**Detail on air connection on  
the MEMPRO Transmitter**