

Application:

The **Ex pz Purge Gas Controller Type A42-M2** is designed to control a pressurized cabinet with the maximum volume of 4000 liters, installed in **zone 2** or **zone 22**.

The Purge Gas Controller is made of an aluminium enclosure which contains the electronic controller as well as the Ex i display.

After connecting the controller to power, the pre-purge period starts automatically, which guarantees that no explosive gases are inside the cabinet anymore. After the pre-flushing time, the controller switch on the power to the cabinet. Internal pressure sensors monitors the differential pressure between the cabinet inside and the atmosphere outside.

Together with a **purge valve** and a **pressure control device** the purge controller ensures a constant overpressure in the cabinet.

If the pressure inside the cabinet drops under the lower limit, the controller gives an alarm signal or, depending on the conditions on site, turns off the power to the cabinet. The power could be turned off outside the hazardous area by an power relay or inside zone 2 or 22 by using the **Exepd Power Relay Type A22-N1-V0102**.

After the overpressure inside the cabinet is reached again, the controller starts automatically the pre-flushing process and switch on the power to the cabinet. The **Ex i control unit A42-I1** allows to make setting of purge times, pressure values, and function modifications. After the settings the Ex i control unit could be removed to protect the systems from unauthorized changes or using with other A42-M2 controllers.



Technical data:

Ex marking:	Ex II 3G Ex nAC [ic] [pzc] IIC T4 Gc Ex II 3D Ex tc [ic] [pzc] IIIC T80°C
Power supply:	AC 230V (±10%); 50-60 Hz Article No.: 400062 DC 24V (±10%) Article No.: 400013
Pressure range:	0-25 mbar
Pre-flushing time:	adjustable 0-99 min
Purge valve signal:	230 VAC version = 230 VAC 24 VDC version = 24 VAC
release contact:	230VAC / 24VDC - max. 5A
Cable glands:	2 x M16x1,5 mm + 2 x M20x1,5
T ambiente:	-20°C ... +60°C (at T4)
Enclosure material:	Aluminum grey similar to RAL 7038
IP-protection:	acc. to EN 60529 IP66 acc. to EN 60079-0/60079-31 tested min. IP64
Weight:	3 kg
Dimensions:	120x160x80 mm

Advantages:

- removeable Exi control unit
- adjustable time delay
- free adjustable additional contact
- Ex i input for cooling systems
- Input for bypass switch

Dimensions:

