

General information

Ex versions

Extractive continuous process gas analysis

Series 6

Purging unit ATEX II 2G/3G, continuous purging

Overview

BARTEC Ex p purging unit "continuous purging"

The APEX 2003.SI purging unit controls and monitors the pre-purging and operating phases of analyzers with containment systems in Ex zone 1 and 2.

The purging unit redundantly monitors the continuous flow of protective gas through the connected analyzer and thereby dilutes any escaping sample gas to below the lower explosive limit (max. purging gas pressure 25 hPa).

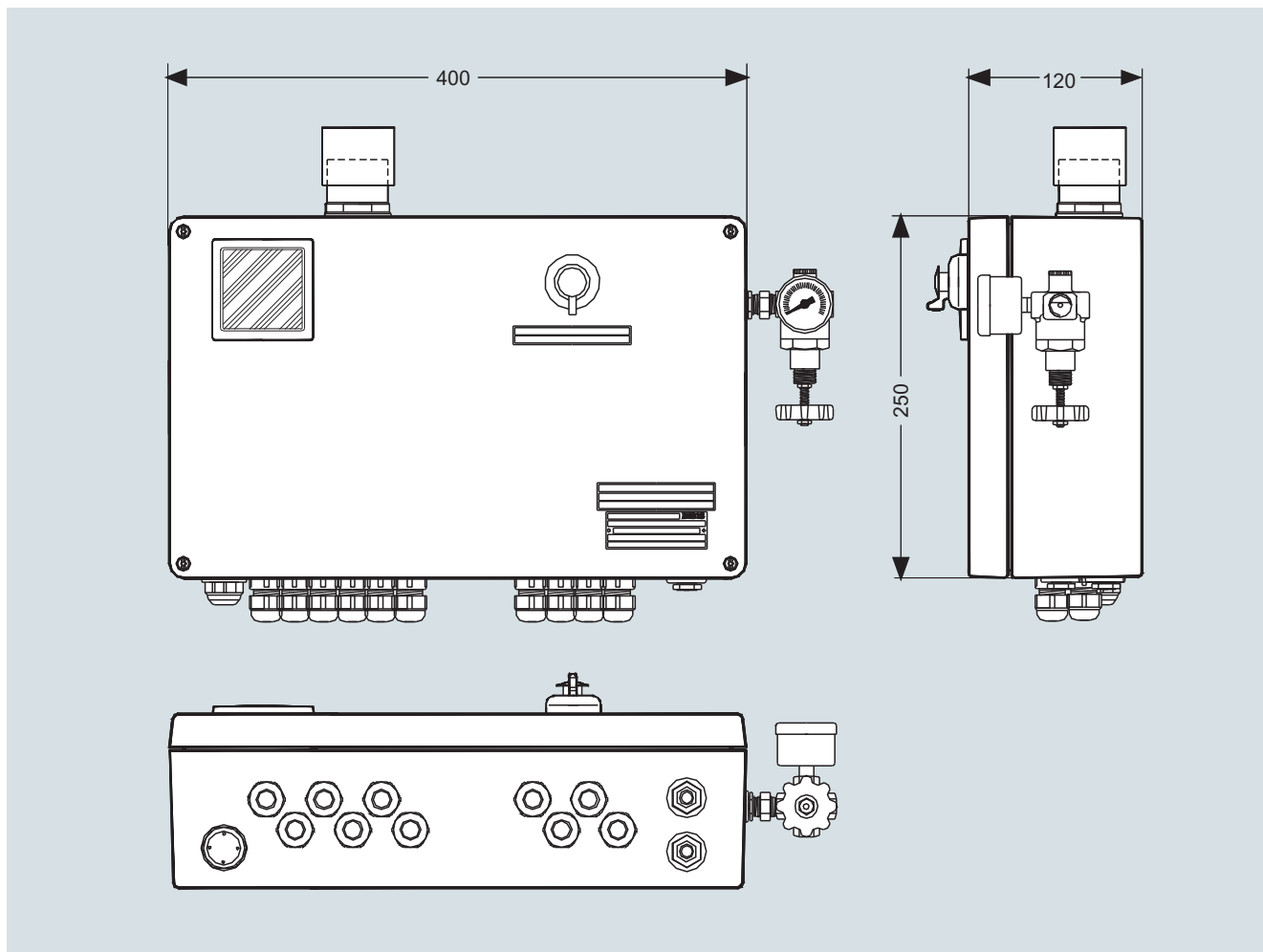
At the same time, a higher pressure is maintained inside the Ex-p enclosure than in the surrounding atmosphere. If the flow of purging gas or the internal pressure falls below a determined minimum value, the supply voltage to the equipment in the flameproof enclosure is shut down.

Technical specifications

Guidelines	<ul style="list-style-type: none"> • EU EMC Guideline 89/336/EEC • EC low voltage, RL 73/23/EEC • ATEX directive 94/9/EC
Design	Explosion-protected enclosure (Ex e) with viewing window in the cover
Degree of protection	IP65
Terminals	2.5 mm, finely stranded
Pressure sensors	<ul style="list-style-type: none"> • MIN A = 0 ... 25 hPa • MIN B = 0 ... 25 hPa • MAX = 0 ... 25 hPa • MAX 1 = 0 ... 25 hPa • DIFF A = 0 ... 25 hPa • DIFF B = 0 ... 25 hPa
Prepurging time	0 ... 99 min; 5 sec dropout delayed
Weight	10.6 kg
Electrical data	
Supply voltage	230 V AC (115 V AC) ± 10 %, 48 ... 62 Hz
Power consumption	15 W /230 V
Relay contacts	K2/3; max. 250 V, 5 A with $\cos \phi = 1$, K4/K5; supply voltage or floating, max. 250 V, 5 A with $\cos \phi = 1$
Communication (for service only)	RS 485 interface
Temperature switching value (option)	0 ... +40 °C
Explosion protection	
Marking	II 2(1)G Ex de ib [ia Ga px] IIC T4 Gb
Design examination certificate	DMT 99 ATEX E 082
Ambient temperature	-20 ... +40 °C

Selection and ordering data

	Article No.
ATEX Category II 2G (zone 1)/ Category II 3G (zone 2)	
BARTEC Ex p purging unit, 230 V, "continuous purging"	7MB8000-2CA
BARTEC Ex p purging unit, 115 V, "continuous purging"	7MB8000-2CB

Dimensional drawings

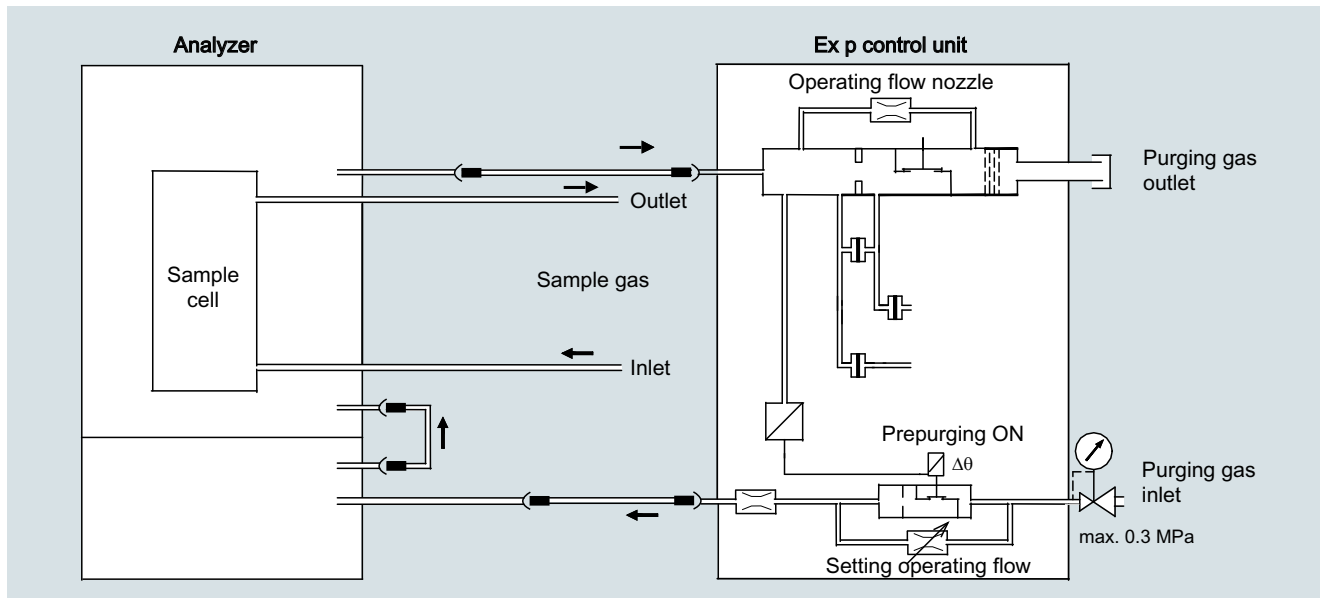
BARTEC purging unit, dimensions in mm

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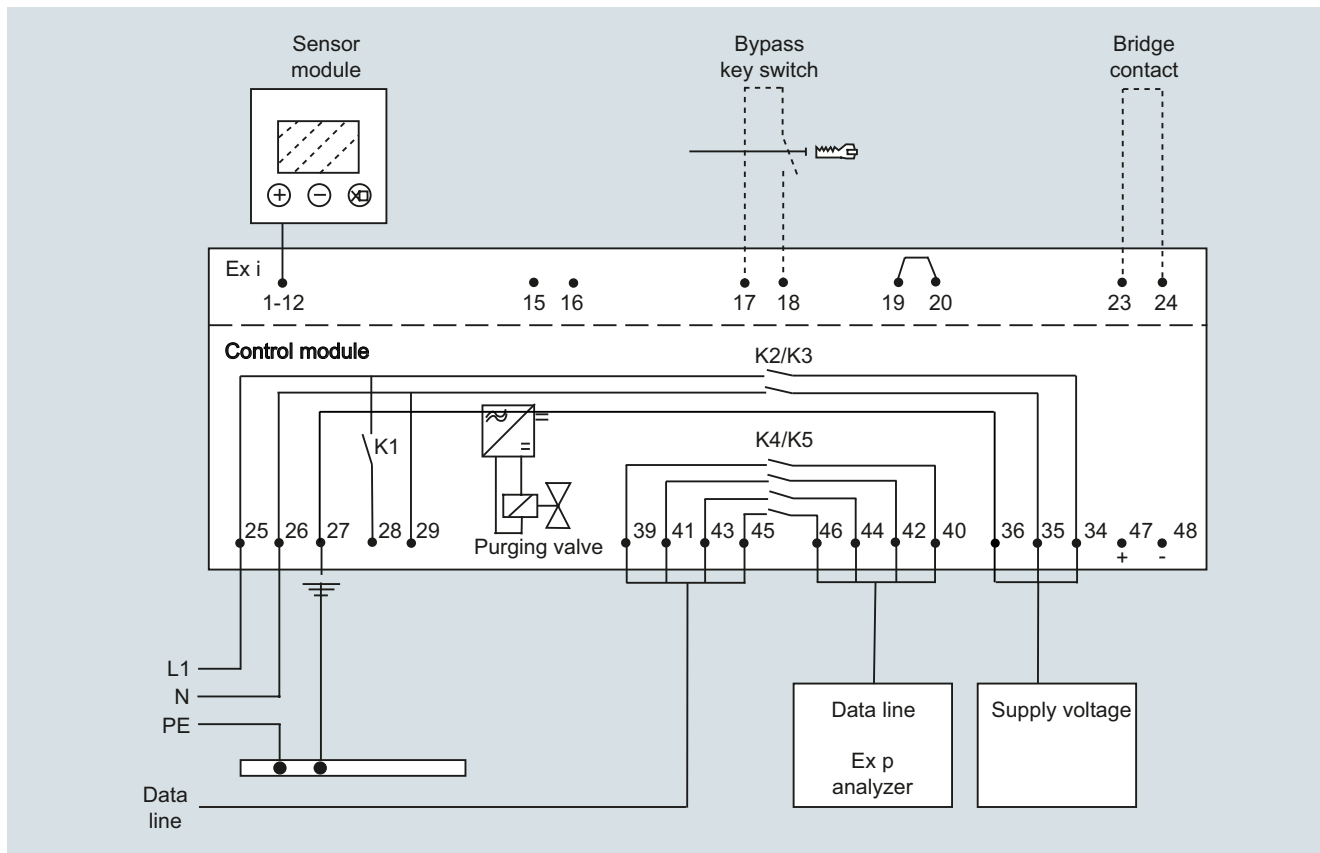
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Circuit diagrams



BARTEC purging unit, continuous purging, gas connection diagram



BARTEC purging unit, continuous purging, electric connection diagram