



Control unit

Features

- 4 voltage free contacts
- 3-line LCD display
- LED status display
- Modular design
- Fail-safe control
- Integrated valve switches for purging gas input and output
- Connection possibility of separate pressure sensors

Description

The APEX 2003.SI control unit controls and monitors the purging and operating phases in Ex p protected analysis systems with integrated containment.

Additional function

By connecting additional pressure sensors, the pressure inside the enclosure is regulated by means of a proportional valve to a higher level than that of the measuring gas.

The flow of purge gas during the purging phase is at most 4100 standard litres / h while the pressure inside the enclosure is 50 mbar.

The control unit features two freely programmable relays and one non-floating enabling contact.

Explosion protection

Ex protection type
ATEX $\text{Ex II 2(1)G Ex e d ib [ia Ga px] IIC T4 Gb}$

Certification
DMT 99 ATEX E 082

See www.bartec.-group.com for more approvals and certification.

Ambient temperature
-20 °C to +40 °C

Technical data

Guidelines/norms/certifications

Directive 2004/108/EC
Directive 94/9/EC

Construction

Ex e protective enclosure with viewport lid

Enclosure material

glass-fiber reinforced, polyester

Protection class

IP 65

Terminals

2.5 mm², fine stranded

Purge gas connection

Ø 10 mm

Pressure time

MIN A/B = 0 to 300 mbar
MAX = 0 to 300 mbar
DIFF A/B = 0 to 25 mbar

Purging time

0 bis 99 min; 5 sec. dropout delay

Weight

11 kg

Safety Level

SIL 2

Electrical data

Supply voltage

AC 230 (AC 115 V) ±10 %

Power consumption

P_v = 21 W/230 V

Make contact

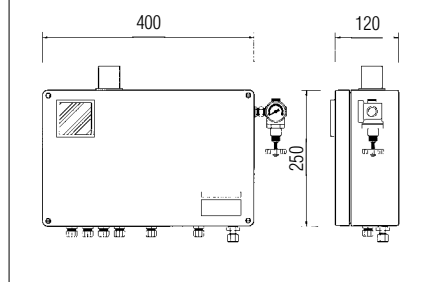
K 2/3, 5 A for cos φ = 1
K 4 and K 5, voltage free

Temperature switching value (optional)

0 °C to +80 °C

Bypass key switch (optional)

Dimensions/mounting positions



Selection chart

Version	Code no.
230 V	1
115 V	2

➔ **07-3711-3223/ 003**
Complete order no.

Please enter code number.