



Description

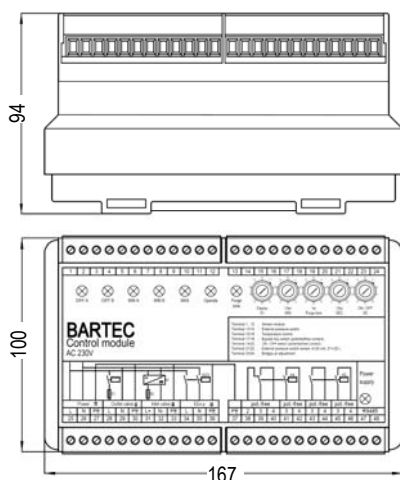
The control module is designed for use in APEX control units.

Its functions are the control, regulation and signalling for Ex p operating equipment.

All components in the APEX control are connected, controlled and monitored on the control module.

The components are connected by means of terminals.

Dimensions in mm



01-7331-7B0017/A-04/14-STVT

Explosion Protection

Ex Protection Type

Ex II 2(1) G
Ex d e [ia Ga] IIC Gb

Mounting: (Typ 17-5522-.2..)

Ex II (1) G [Ex ia Ga px] IIC

0044

Certification

Enclosure:
PTB 97 ATEX 1066U
IECEX PTB 11.0082U
Installation:
DMT 99 ATEX E082
IECEX BVS 13.0039

Ex i circuit

Supply circuit 1

$U_0=30\text{ V}$
 $I_0=100\text{ mA}$
 $P_0=750\text{ mW}$
 $C_0=66\text{ nF}$
 $L_0=3\text{ mH}$

Supply circuit 2

$U_0=7.5\text{ V}$
 $I_0=10\text{ mA}$
 $P_0=20\text{ mW}$
 $C_0=11\text{ }\mu\text{F}$
 $L_0=330\text{ mH}$

Signal circuit 1

$U_0=7.5\text{ V}$
 $I_0=50\text{ mA}$
 $P_0=95\text{ mW}$
 $C_0=11\text{ }\mu\text{F}$
 $L_0=14\text{ mH}$

Signal circuit 2

$U_0=-7.5\text{ V}$
 $I_0=10\text{ mA}$
 $P_0=20\text{ mW}$
 $C_0=11\text{ }\mu\text{F}$
 $L_0=330\text{ mH}$

Signal circuit 3

$U_0=-30\text{ V}$
 $I_0=100\text{ mA}$
 $P_0=750\text{ mW}$
 $C_0=66\text{ nF}$
 $L_0=3\text{ mH}$

Ambient temperature

-20 °C to +40 °C (operation)
-40 °C to +60 °C (storage)

Approved for Zones

1 and 2

Technical Data

Construction

Flameproof clip-on enclosure for TS35

Enclosure materials

High-quality thermoplastics

Protection class

Electronic installation	IP66
Terminals	IP20
Terminals with cover	IP30

Connection terminals

2.5 mm², fine-stranded

Displays

LED in the front of the enclosure

Controls

Rotary switch in the front of the enclosure

Weight

2.5 kg

Electrical data

Supply voltage

AC 230 V \pm 10%
AC 115 V \pm 10%
DC 24 V \pm 10%

Power consumption

$P_V=8\text{ W}/230\text{ V}$

Make contacts

K 2/3, 5 A at $\cos \varphi = 1$
K 4 and K 5; 5 A; potential free

Purging gas valve

Digital or proportional
(type-dependent)

Purging gas valve power

9 watts (type-dependent)
15 watts (type-dependent)

Type

07-7331-8112/2100	AC 230V, 9 W
07-7331-8122/2100	AC 115V, 9 W
07-7331-8142/2100	DC 24V, 9 W
07-7331-8112/3100	AC 230V, 15W
07-7331-8122/3100	AC115V, 15W