

Polyester distribution boxes preassembled

Features

- Delivery from stock
- Modification possibilities e. g. to Ex i

Description

Polyester distribution boxes have been of great advantage in many industrial plants. They offer safe protection even when they are exposed to extreme environmental conditions, aggressive chemical media or high mechanical stress.

The narrow sides within the enclosure hold threaded bushings for the fixing of terminal rails or mounting panels. The enclosure is mounted by means of insulated screws outside of the lid sealing gasket.

These black high-quality explosion-proofed enclosures are used in hazardous areas by inflammable dust (Zone 21 and 22). The fundamental prerequisites of the „protection through enclosure“ protection class are fulfilled with the heating up calculation as per the accompanying sheet and a separate IP protection test.

➔ Explosion protection

Ex protection type

- ATEX**
- ⊕ II 2G Ex e ia/ib IIA, IIB, IIC T6, T5 Gb
 - ⊕ II 2G Ex IIA, IIB, IIC T6, T5 Gb
 - ⊕ II 2D Ex tb IIIC T80 °C, T95 °C Db IP 66
 - ⊕ II 2D Ex ia/ib IIIC T80 °C, T95 °C Db

Certification

PTB 08 ATEX 1064

IECEX

- Ex e ia/ib IIA, IIB, IIC T6, T5 Gb
- Ex IIA, IIB, IIC T6, T5 Gb
- Ex tb IIIC T80 °C, T95 °C Db IP 66
- Ex ia/ib IIIC T80 °C, T95 °C Db

Certification

PTB 09.0009X

Other approvals and certificates, see www.bartec-group.com

Ambient temperature

- 20 °C up to +40 °C at T6
- 20 °C up to +55 °C at T5

optional:

- 55 °C up to +40 °C at T6
- 55 °C up to +55 °C at T5

➔ Technical data

Protection class

IP 66

Material

glass-fibre reinforced polyester, EN 60079-0, halogen-free colour: RAL 9005, black

Electrical resistance

surface resistance < 10⁹ Ω



Selection chart

Dimensions	Cable glands				Terminals	Order no.
	side A	side B	side C	side D		
110 x 75 mm	1 x M20 x 1.5 1 x M25 x 1.5	2 x M20 x 1.5 1 x M20*	-	-	10 x AKZ4 + 2 x PE	07-5103-9601
122 x 120 mm	2 x M20 x 1.5	2 x M20 x 1.5	1 x M20 x 1.5*	1 x M20 x 1.5*	10 x WDU4 + 2 x PE	07-5103-9602
220 x 120 mm	4 x M16 x 1.5 4 x M20 x 1.5*	4 x M16 x 1.5 4 x M20 x 1.5 1 x M25 x 1.5*	-	-	25 x WDU4 + 6 x PE	07-5103-9604
122 x 120 mm	-	2 x M20 x 1.5	1 x M20 x 1.5	1 x M20 x 1.5	8 x WDU4 + 2 x PE	07-5103-9606
122 x 120 mm	-	2 x M25 x 1.5	1 x M25 x 1.5	1 x M25 x 1.5*	6 x WDU6 + 2 x PE	07-5103-9608

* Sealing plug

Dimensions 110 x 75 x 55 mm **Type 07-5103-9601**
 Terminals 10 x AKZ4 + 2AKE4

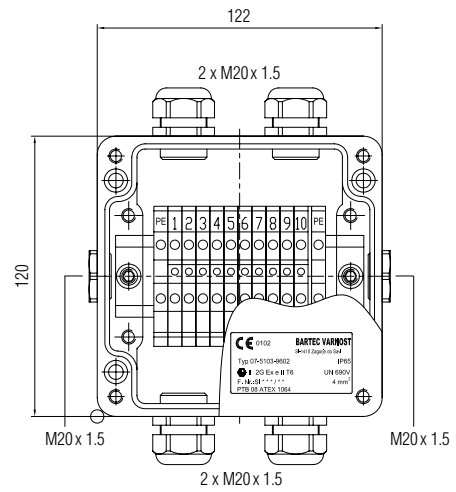
Technical drawing of the 110 x 75 x 55 mm distribution box. It shows a top view with dimensions 110 mm width and 75 mm height. There are two M25 x 1.5 glands on the top and two M20 x 1.5 glands on the bottom. The terminal block contains 10 AKZ4 terminals and 2 AKE4 terminals. A label on the box provides technical specifications: CE mark, Type 07-5103-9601, B 2G Ex e II T0, UN 2720V, and a 4 mm depth.

Dimensions 220 x 120 x 90 mm **Type 07-5103-9604**
 Terminals 25 x WDU4 + 6 x WPE4

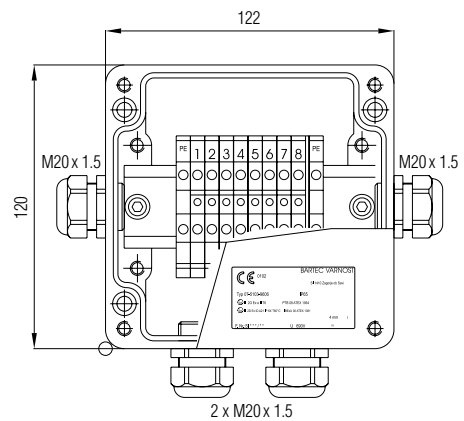
Technical drawing of the 220 x 120 x 90 mm distribution box. It shows a top view with dimensions 220 mm width and 120 mm height. There are four M16 x 1.5 glands on the top and two M20 x 1.5 glands on the bottom. The terminal block contains 25 WDU4 terminals and 6 WPE4 terminals. A label on the box provides technical specifications: CE mark, Type 07-5103-9604, B 2G Ex e II T0, UN 650V, and a 4 mm depth.



Dimensions 122 x 120 x 90 mm **Type 07-5103-9602**
Terminals 10 x WDU4 + 2 x WPE4



Dimensions 122 x 120 x 90 mm **Type 07-5103-9606**
Terminals 8 x WDU4 + 2 x WPE4



Dimensions 122 x 120 x 90 mm **Type 07-5103-9608**
Terminals 6 x WDU6 + 2 x WPE4

