



Control, regulating and display devices

Description

BARTEC offers two type series of explosion proof encapsulated enclosures for using electric components in hazardous (potentially explosive areas).

Within the scope of the EC model test certification, these can be fitted with industrial standard units, such as e.g. small-type motors, printed circuit boards and cameras.

The mounted parts are evaluated by BARTEC, fitted into a suitable housing and provided as a complete device with the corresponding ATEX marking.

This housing series offers optimum solution approaches for control, regulating and display devices in Zone 1 and zone 21 hazardous areas.

Explosion protection

Ex protection type

Typ 07-61.1.. $V \leq 100 \text{ cm}^3$

Ex II 2G Ex de IIC T6/T5

Ex II 2D Ex tD A 21 IP 66

T 80 °C or T 95 °C

PTB 03 ATEX 1026

Typ 07-61.2.. $100 \text{ cm}^3 < V \leq 2750 \text{ cm}^3$

Ex II 2G Ex de [ia/ib] IIC T6, T5 or T4

Ex II 2D Ex tD [iaD/ibD] A21 IP 6X

T 80 °C or T 95 °C

PTB 03 ATEX 1051

Technical data

Protection class

min. IP 54/IEC 60529

Enclosure material

Metall

Surface

bare, electro-plated or varnished

Order no.

07-61.1-...

07-61.2-...









Description

The control, regulating- and display devices are assembled out of the following modules to suit the required function.

The size of the equipment depends on the components, power dissipation and the required housing volume.

Selection chart

Front flange	Enclosure	Rear flange
<p>closed e. g. for vibration measuring instrument or printed circuit board installation</p>  <p>with shaft bushing e. g. for small motors, rotary encoders or switches</p>  <p>with inspection glass e. g. for cameras, optoelectronic units Displays</p> 	<p> Ø 30 mm to max. 25 cm³ volume Ø 45 mm to max. 100 cm³ volume Ø 60 mm to max. 200 cm³ volume Ø 90 mm to max. 1000 cm³ volume Ø 120 mm to max. 2750 cm³ volume </p>  	<p>with multicore tube encapsulated directly in the housing only up to a maximum 60 mm housing diameter</p>  <p>with cable entry</p>  <p>with Ex d screwed cable gland not suitable for gas subgroup IIC when sparking parts have been fitted.</p>  <p>Flange with Ex e connection housing</p> 