

# Ex-Box Temperature Controller with Display

Ex-Box REG/DIS: complying with latest Ex-protection directives 94/9/CE (ATEX 95) this electronic temperature controller has been designed and developed especially for its use in hazardous areas. Programming and operation is done via the integrated operating panel with display.

## Advantages:

- Rugged enclosure IP 65
- Operation and programming in hazardous areas
- Increased safety through fail alarm
- Integrated heating circuit monitoring
- Display

## Applications:

- Hazardous areas
- Power plants
- Chemical & petrochemical industries
- Oil & gas industries
- Pharmaceutical industry
- Plastics industry
- Wastewater treatment plants



## Type Ex-Box REG/DIS





## Technical Information

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### Data

■ Certificate	IBExU 04 ATEX 1165 X
■ Classification	II 2G Ex emb [ib] IIC T4 Gb II 2D Ex tb IIIC T100 °C Db -32 °C ≤ Ta ≤ 60 °C
■ Dimensions	140 x 140 x 150 mm (w x h x d) (without wall-mounting bracket, excluding glands)
■ Enclosure	Aluminium
■ IP rating	IP 65
■ Ambient temperature	-32 up to 60 °C
■ Switching capacity	16 A
■ Display	2 x 4 35-segment LED
■ Operating voltage	230 V +/- 10 %
■ Nominal current	Max. 100 mA
■ Load current, max.	16 A (ohm resistive load)
■ Load output	230 V / 16 A, 2-pole
■ Alarm output	Optically separated 100 mA
■ Interface	Intrinsically safe for Ex-Connect (bus connection)
■ Measurement input	Pt100 2/3 wire, intrinsically safe
■ Measurement range	-40 °C up to +300 °C
■ Control characteristics	Dual mode controller
■ Weight	Approx. 3.5 kg

### Cable Entries

- 1 x M25 for voltage supply (9-13 mm; with add-ons for 11-15 mm)
- 1 x exchangeable panel seal 7-10.5 mm
- 1 x M25 for heating line (2-fold 6 mm)
- 1 x M20 for sensor (tension range 3-4 mm)
- 1 x vent screw M20

Designation	Art. No.
Ex-Box REG/DIS	0X60020