



Electronically level-controlled drain BEKOMAT 3 CO Ex

The BEKOMAT 3 CO Ex is a reliable, safely operating condensate drain for compressor stations up to 100 m³/min quantity of delivery.

Application: For explosion-endangered areas: oily or oil-free condensate

Characteristics

- Reliable condensate drain without unnecessary loss of compressed air
- Simple installation
- No preventive checks or maintenance required
- Clear and distinct display of operating parameters by LED Display
- Self-monitoring thanks to integrated alarm system
- Non-wearing, capacitive measuring system without moving parts
- Rugged and durable construction
- Potential-free alarm contact
- Test button for checking device functions

Housing made of die-cast aluminium resistant to corrosion, complete with glass-bead finishing. High-grade protection is provided internally and externally by a hard coat.

The BEKOMAT...Ex is approved for use in explosion-endangered areas (II 2G Ex ib IIB T4 Gb). The Physikalisch-Technische Bundesanstalt (Federal Physical and Technical Institute) in Braunschweig has issued conformity certificate BVS 03 ATEX E 214. confirming the suitability of this device for use in explosion-endangered areas.

The unique capacitive 2-point level control with no mechanically moving parts, in combination with a specially developed release membrane, allows safe draining of condensate without undesired loss of pressurized air, independent of system pressure and condensate viscosity.

An impurity lock in the bottom of the collecting tank provides for the pre-sedimentation of larger impurity particles.

Problems in the condensate drain are monitored and indicated by the integrated self-control unit with NAMUR-Interface.

Technical data BEKOMAT 3 CO Ex

Compressor performance)*	100 m ³ /min
Refrigeration dryer performance)*	200 m ³ /min
Operating pressure min/max.	0,8/16 bar (g)
Housing	Aluminium, hardcoated
Material membrane	FKM
Ambient temperature	+1°C/+60°C
Weight	2,6 kg
Condensate inlet	3 X G ³ / ₄ [optional: NPT-Adapter]
Condensate outlet (hose connection)	1 X G ¹ / ₂ [optional: NPT-Adapter]
Manual drainage	1 x G ¹ / ₄
Intrinsically safe power supply	12 Vdc
Peak voltage	12,6 V
Ex-current input in case of failure	150 mA (limited by power supply)
Ex-power input in case of failure	1,9 W
Turn-on voltage for alarm relays	Optocoupler; NAMUR Interface (EN 60947-5-6)
Housing protection	IP 65
Cable cross section	recommended 3 X 0.75 mm ²

)* Based on moderate climate (e.g. Europe)

Dimensioned Drawing BEKOMAT 3 CO Ex

