

Danfoss pressure and temperature controls





Danfoss – your solution provider

Danfoss offers a wide range of pressure and temperature controls and sensors for a majority of application areas.

Danfoss components are constructed to perform under the most difficult operating conditions, to monitor your processes and to protect your equipment.

Our production utilises state-of-the-art processes and every product is designed based on decades of global experience within refrigeration and airconditioning applications.

Before leaving Danfoss hands, every product is thoroughly tested in accordance with the most demanding standards.

If the component you are looking for is not mentioned in this leaflet or if you have special requirements, our competent personnel can offer you help and guidance and will do their utmost to fulfil your needs.

Make sure you get the right solution – contact your local Danfoss sales company or find us on:

<http://www.danfoss.com/how2con/>



KP Pressure Controls

Features:

Compact design
Fully welded bellows element
Fail-safe bellows
Contact load 16 A, 400 V
Manual test of contact function
Long operation life
High contact load
Ultra short bounce times
Vibration proof
High pulsation protection

Ranges:

From - 0.9 to 7 bar, up to 8 to 42 bar

Connections:

1/4" flare
1/4" ODF solder
6 mm ODF solder
Cap. tube

Facts:

KP 2 with narrow differential (min. 0.4 bar) for low pressure regulation.
KP 6 for high pressure refrigerants (R 410A, CO₂).
All KP controls meet the UL requirements
KP 6, KP 7 and KP 17 meet the PED requirements.



KP Thermostats

Features:

Compact design
Fully welded bellows element – increased reliability
Manual test of contact function
Long operation life
High contact load
Ultra short bounce time
Vibration proof

Ranges:

From -70°C to 50°C, up to 100° to 180°

Connections / Bulb types:

Straight cap. tube
9.5 x 70 mm remote air coil
Room sensor
Remote bulb
25 x 125 mm remote duct coil

Facts:

Max. starting current: 112 A, 400 V
Contact load 16 A, 400 V
Min. range for vapour charge: - 70°C
Min. range for adsorption charge: - 30°C

AKS Pressure Transmitters

Developed to meet Refrigeration and Airconditioning demands.

Features:

Compact design
All wetted parts laser welded in AISI 316L stainless steel.
Piezoresistive sensing element.
Resistant against vibrations, pressure pulsations, humidity and ice formations.

Ranges:

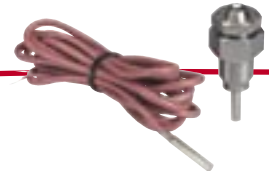
From -1 to 6 bar up to 0 to 60 bar

Connections/Bulb types:

1/4" flare
1/4" NPT
G 3/8 A
3/8" solder

Facts:

AKS 3000: 4 to 20 mA signal (1% FS typical).
AKS32R: 0.5-4.5 V d.c., ratiometric (0.3% FS typical).
AKS 33: 4 to 20 mA signal (0.5% FS typical).
AKS 32: 1 to 5 V d.c. signal (0.5% FS (typical)).
MWP 33 bar or higher
Sealed gauge, absolute sensing element



AKS Temperature Sensors

The preferred sensor for demanding applications like supermarket and hypermarkets.

Features:

Designs

- Surface sensor
- Air sensor, duct sensor
- Immersion sensor terminal box
- Plus a variety of OEM models

Sensing media:

- All types of refrigerants
- Air, water and brine

Ranges:

From -70°C and up to more than 200°C.

Facts:

Designed for Danfoss ADAP-KOOL® controllers.
With Pt 1000 sensing elements for highest accuracy. Available with all versions of NTC, PTC and RTD sensing elements. High quality silicon cables for wide temperature ranges, preferred for defrost applications.

Quality in everything we do

Industrial Controls, part of the Danfoss concern, is certified in accordance with the international standards, ISO 9001 and ISO 14001.

Danfoss thus fulfils international standards with respect to product development, design, production, sale and environmental awareness.



Product program

Type	Function	Application	Product Range
KP Pressure control	Safety cut-out. Capacity control.	Commercial and industrial refrigeration plant	Low pressure KP 1 and KP 2 High pressure: KP 5 High pressure, fail safe: KP 6 and KP 7 Dual controls: KP 15 Dual controls, fail safe: KP 17
KP Thermostat	Frost protection. Case and room control. Defrost control.	Commercial and industrial refrigeration plant	Vapour charge, for low temperatures and tight differentials: KP 61-KP 69 Adsorption charge, for high temperatures: KP 71-KP 98
AKS Pressure transducer	Compressor capacity control. Evaporator injection control. Safety and monitoring control.	Suction, discharge and oil pressure. Compressors, chillers, units and processes	For OEM units: AKS 32R and AKS 3000 Commercial and industrial plant: AKS 32 and AKS 33
AKS Temperature sensor	Evaporator and condensor control. Safety and monitoring control.	Evaporation and discharge temperature. Air, brine and room temperature control and monitoring.	AKS 11: Patented air and surface sensor. AKS 21: Heavy duty, universal sensor. EKS111: Economic OEM sensor

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