ENGINEERING TOMORROW

Data Sheet

Temperature sensor Type **AKS 10**



Pt1000 temperature sensor

The sensor can be used for temperature logging on monitoring in conjunction with Danfoss controllers in the following areas:

- Residential HVAC
- Commercial HVAC
- Commercial refrigeration
- Food retail refrigeration
- Transport refrigeration
- Industrial refrigeration

The sensor comes adjusted and complies with the requirements to tolerance in EN 60751, class B.

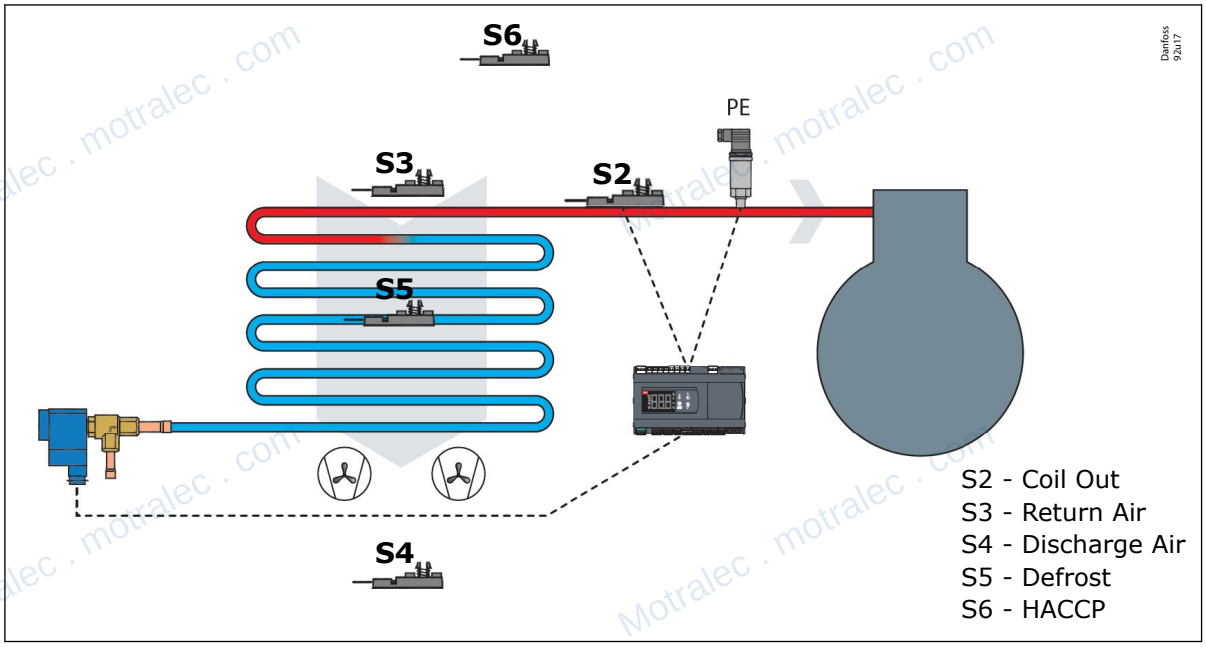
Features

- Temperature range -40°C to 100 °C

Applications

Application Overview

Figure 1: Application Overview



motralec ★★★★★ 4,8/5 . +600 avis
4 rue Lavoisier, 95220 Herblay-sur-Seine . Tél. 01 39 97 65 10 . service-commercial@motralec.com . www.motralec.com

Product specification

Technical Data

Table 1: Technical data

Nominal resistance	1000 ohm at 0 °C
Measuring accuracy	Class B
Temperature range	-40– 100 °C
Cable material	PVC, 2 x 0.22mm^2
Sensor clip	A5052 Al + PA6
Time constant	11 ± 3 sec. on Cu tube.
Enclosure	IP67

Table 2: Technical data

R (Typ.) [Ohm]	Temp. [°C]	Temp. [°F]
1117	30	86
1078	20	68
1039	10	50
1000	0	32
961	-10	14
922	-20	-4
882	-30	-22

Cableresistance @ 20 °C:

- PVC2 x 0.22 mm^2 (Resistance per conductor R1 = 78.2 Ohm/km)
- The constant conductor resistance: R = 2 x R1
- The total resistance in the sensor circuit is therefore R + RTD.

motralec ★★★★★ 4,8/5 . +600 avis

4 rue Lavoisier, 95220 Herblay-sur-Seine . Tél. 01 39 97 65 10 . service-commercial@motralec.com . www.motralec.com

Ordering

Table 3: Temperature sensors, type AKS 10

Type	Cable	Packing Qty.	Code no.
AKS 10 Single type Black cable	3.5 m	1	097U0291
	5.5 m	1	097U0292
	8.5 m	1	097U0293
AKS 10 Industrial Pack Black cable	3.5 m	110	097U0294
	5.5 m	70	097U0295
	8.5 m	50	097U0296

motralec ★★★★★ 4,8/5 . +600 avis

4 rue Lavoisier, 95220 Herblay-sur-Seine . Tél. 01 39 97 65 10 . service-commercial@motralec.com . www.motralec.com

ENGINEERING TOMORROW

Online support

Danfoss offers a wide range of support along with our products, including digital product information, software, mobile apps, and expert guidance. See the possibilities below.

The Danfoss Product Store



The Danfoss Product Store is your one-stop shop for everything product related—no matter where you are in the world or what area of the cooling industry you work in. Get quick access to essential information like product specs, code numbers, technical documentation, certifications, accessories, and more.
Start browsing at store.danfoss.com.

Find technical documentation



Find the technical documentation you need to get your project up and running. Get direct access to our official collection of data sheets, certificates and declarations, manuals and guides, 3D models and drawings, case stories, brochures, and much more.

Start searching now at www.danfoss.com/en/service-and-support/documentation.

Danfoss Learning



Danfoss Learning is a free online learning platform. It features courses and materials specifically designed to help engineers, installers, service technicians, and wholesalers better understand the products, applications, industry topics, and trends that will help you do your job better.

Create your Danfoss Learning account for free at www.danfoss.com/en/service-and-support/learning.

Get local information and support



Local Danfoss websites are the main sources for help and information about our company and products. Find product availability, get the latest regional news, or connect with a nearby expert—all in your own language.

Find your local Danfoss website here: www.danfoss.com/en/choose-region.

Spare Parts



Get access to the Danfoss spare parts and service kit catalog right from your smartphone. The app contains a wide range of components for air conditioning and refrigeration applications, such as valves, strainers, pressure switches, and sensors.

Download the Spare Parts app for free at www.danfoss.com/en/service-and-support/downloads.

Danfoss A/S
Climate Solutions • danfoss.com • +45 7488 2222

Any information, including, but not limited to information on selection of product, its application or use, product design, weight, dimensions, capacity or any other technical data in product manuals, catalogues descriptions, advertisements, etc. and whether made available in writing, orally, electronically, online or via download, shall be considered informative, and is only binding if and to the extent, explicit reference is made in a quotation or order confirmation. Danfoss cannot accept any responsibility for possible errors in catalogues, brochures, videos and other material.
Danfoss reserves the right to alter its products without notice. This also applies to products ordered but not delivered provided that such alterations can be made without changes to form, fit or function of the product.
All trademarks in this material are property of Danfoss A/S or Danfoss group companies. Danfoss and the Danfoss logo are trademarks of Danfoss A/S. All rights reserved.

motralec ★★★★★ 4,8/5 . +600 avis
4 rue Lavoisier, 95220 Herblay-sur-Seine . Tél. 01 39 97 65 10 . service-commercial@motralec.com . www.motralec.com

motralec

Expert en pompes, moteurs électriques et ventilateurs industriels depuis 1976.
Herblay-sur-Seine (95) . Sèvres (92) . Étréchy (91) . www.motralec.com

Besoin d'un prix ou d'un conseil technique ?

Danfoss Temperature sensor Type AKS 10

4,8/5 . +600 avis

- Devis rapide et conseil technique par nos spécialistes
- Plus de 200 000 références et 30 marques distribuées
- Vente, réparation, bobinage et SAV en atelier
- Livraison partout en France, accompagnement avant et après-vente

DEMANDE DE PRIX >