

Duct Temperature Sensors

QAM9020...

Use

The QAM9020... duct temperature sensors are designed for use in ventilation and air conditioning plants as supply or extract air temperature sensors.

Type summary

Type reference	Cable length X	Packing size
QAM9020.200	2.0 m	50 pieces
QAM9020.400	4.0 m	25 pieces

Accessories

Name	Type reference	Packing size
Mounting flange	AQM9020	25 pieces

Ordering and delivery

When ordering, please give name and type reference, e. g. duct temperature sensor **QAM9020.200**

The AQM9020 mounting is not included in the delivery and must be ordered as a separate item.

Mechanical design

The duct temperature sensor consist of a stainless steel sleeve which accommodates the sensing element and a ready connected cable.

The sensing element is located at the top of the sleeve and embedded in thermal conductive paste.

Disposal



The devices are considered electronics devices for disposal in terms of European Directive 2012/19/EU and may not be disposed of as domestic waste.

- Dispose of the device via the channels provided for this purpose.
- Comply with all local and currently applicable laws and regulations.

Technical data

General sensor data	Operating range	-35...+100 °C
	Sensing element	LG-Ni 1000
	Time constant t_{63}	approx. 1 min at an air velocity of 3 m/s
	Active sensor length	50 mm
Materials	Sleeve	stainless steel 1.4571 (V4A)
	Connecting cable	PVC
Degree of protection	Protection degree of housing	IP65 according to EN 60529
	Protection class	III to EN 60730-1
Connecting cable	Number of wires	2
	Cross-sectional area per wire	0.35 mm ²
	Length X	refer to "Type summary"
Mechanical connection	Mounting flange	AQM9020
Environmental conditions	Perm. cable temperature	-15...+90 °C
	Perm. humidity	<95 % r.h.
Weight incl. packaging	QAM9020.200	0.080 kg
	QAM9020.400	0.125 kg
	AQM9020	0.057 kg

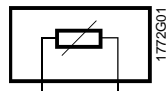
Engineering notes

The permissible cable lengths depend on the type of controller used. For details, refer to the Data Sheet of the relevant controller.

Mounting and installation notes

To mount the duct temperature sensor, it is recommended to use the AQM9020 mounting flange. To ensure correct temperature acquisition along the entire length of the sleeve, the immersion length of the QAM9020... must be a minimum of 50 mm. If the connecting cable needs to be extended, a conduit box is required.

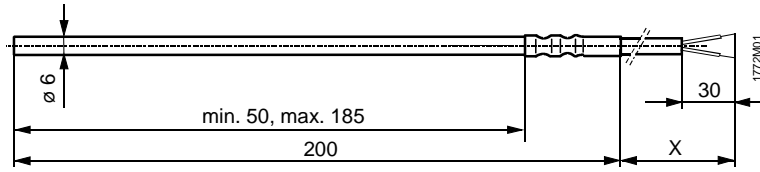
Internal diagram



The internal diagram is identical for all types of duct temperature sensors covered by this Data Sheet.
The connecting wires are interchangeable.

Dimensions (in mm)

QAM9020...



AQM9020

