



QAZ21.. and QAZ36..

## Cable Temperature Sensors

QAZ..

with different types of sensing elements

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**Cable temperature sensors for acquiring the medium temperature in boilers, DHW storage tanks, heat exchangers and solar plants. For use with protection pockets.**

**The QAZ.. and this Data Sheet are intended for use by OEMs which integrate the temperature sensors in their products.**

### Use

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- QAZ21.. standard sensors: With LG-Ni 1000 sensing element for control or limitation of the temperature in boilers, DHW storage tanks or heat exchangers. Suited for use with controllers capable of handling resistance values delivered by this type of sensor
- QAZ21.681/101 solar collector sensor: With LG-Ni 1000 sensing element for control of the medium temperature in solar plants. Suited for use with controllers capable of handling resistance values delivered by this type of sensor
- QAZ36.481/101 solar collector sensor: With NTC 10 k $\Omega$  sensing element for control of the medium temperature in solar plants. Suited for use with controllers capable of handling resistance values delivered by this type of sensor
- QAZ36.. sensors for Boiler Management Units (BMUs): With NTC 10 k $\Omega$  sensing element for control of the DHW temperature in gas-fired heating appliances. Suited for use with all BMUs type LMU..

## Type summary

Type reference	Sensing element	Measuring range °C	Tolerance *	Approx. time constant**	Type of cable	Cable length x mm	Weight g	Packing size/pcs
QAZ21.5120	LG-Ni 1000 Ω at 0 °C	0...130	± 0.4 K	30 s	PE	2000	58	200
QAZ21.5220	LG-Ni 1000 Ω at 0 °C	0...95	± 0.4 K	30 s	PVC	2000	66	200
QAZ21.5240	LG-Ni 1000 Ω at 0 °C	0...95	± 0.4 K	30 s	PVC	4000	126	100
QAZ21.5260	LG-Ni 1000 Ω at 0 °C	0...95	± 0.4 K	30 s	PVC	6000	186	50
QAZ21.681/101	LG-Ni 1000 Ω at 0 °C	-30...180 ***	± 0.4 K	30 s	Silicone	1500	51	20
QAZ21/0120	LG-Ni 1000 Ω at 0 °C	0...95	± 0.4 K	30 s	PVC	800	30	500
QAZ21/0220	LG-Ni 1000 Ω at 0 °C	0...95	± 0.4 K	30 s	PVC	1500	51	250
QAZ21/0720	LG-Ni 1000 Ω at 0 °C	0...95	± 0.4 K	30 s	PVC	900	33	500
QAZ21/0820	LG-Ni 1000 Ω at 0 °C	0...95	± 0.4 K	30 s	PVC	1700	57	200
QAZ36.481/101	NTC 10 kΩ at 25 °C	-30...200 ***	± 0.5 K	30 s	Silicone	1500	51	1
QAZ36.522/109	NTC 10 kΩ at 25 °C	0...95	± 0.5 K	30 s	PVC	2000	66	200
QAZ36.526/109	NTC 10 kΩ at 25 °C	0...95	± 0.5 K	30 s	PVC	6000	186	50

\* Tolerance band QAZ21.. at 0 °C and QAZ36.. at 25 °C

\*\* Time constant QAZ21.. and QAZ36.. with protection pocket

\*\*\* Measuring range short-time QAZ21.681/101 220 °C and QAZ36.481/101 260 °C

## Ordering

When ordering, please give type reference according to "Type summary".

## Mechanical design

The standard version of the cable temperature sensor consists of stainless steel sleeve (6 mm diameter, 40.5 mm long), sensing element and connecting cable with ferrules. The sensing element is accommodated in the sleeve to which the connecting cable is attached. The sensor is not suited for direct immersion in liquid media (without using a protection pocket).

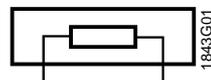
Other types of sensing elements, connecting cables and connectors are available on request.

## Technical data

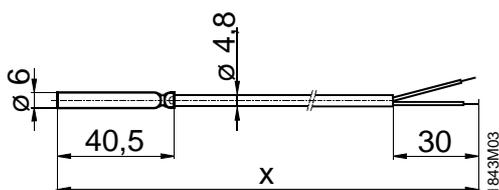
For general sensor data, also refer to "Type summary"	Ambient temperature (PVC cable)	max. 95 °C
	Ambient temperature (PE cable)	max. 125 °C
	Ambient temperature (silicone cable)	max. 180/200 °C (short-time 220/260 °C)
	Electrical strength	500 V
	Electrical connections	interchangeable
Norms and standards	Climatic and mechanical requirements	to IEC 721-3
	Safety class	III to EN 60730

## Connection diagram

QAZ21../ QAZ36..



## Dimensions



QAZ21.. and QAZ36..