SIEMENS OEM



Universal Temperature Sensors

QAL36...

- Universal sensor for indirect acquisition of the medium temperature in boilers and heat exchangers
- The QAL36... and this Data Sheet are intended for use by OEMs which integrate the temperature sensors in their products

Use

The QAL36... is used in connection with Boiler Management Units (BMUs) and has a sensing element NTC 10 $k\Omega$ for control of the boiler or d.h.w. temperature in gas-fired heating appliances. Suitable for use with all BMUs type LMU... that are capable of handling resistance values from such sensors.

Type summary

Type reference	Sensing element	Measure- ment range	Tolerance	stant *	Type of cable	Cable length	_	Packing size/pcs
QAL36.225	NTC 10 k Ω at 25 °C	-30125 °C	± 0.5 K at 25 °C ± 1.25 K at 90 °C	10 s with pocket 8 s as strapon sensor	PE	120 mm	4 g	500

^{*} au_{63} in water at 0.4 m/s

Ordering

When ordering, please give type reference according to "Type summary": **QAL36.225**

Mechanical design

The standard version of the universal temperature sensor QAL36... consists of brass sleeve (5 mm diameter, 20 mm long), sensing element and connecting cable with ferrules or Molex plug at the end. The sensing element is embedded 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).

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Accessories

Accessories supplied by AQL21.30 Holding spring for holes with a depth of 30 mm Siemens: AQL21.42 Holding spring for holes with a depth of 42 mm AQL21.60 Holding spring for holes with a depth of 60 mm

Recommended PLT1.5S-M30 (1000 pcs) Cable tie Supplier: Panduit accessories: PRT1.5S-M30 (1000 pcs) Cable tie (reusable) Supplier: Panduit

KU-CR-125 Heat conducting wax Supplier: Kunze Folien GmbH

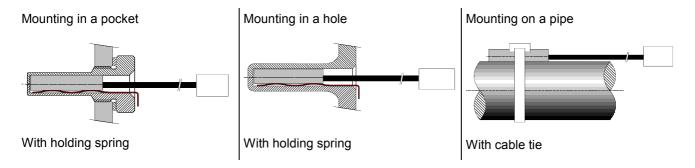
Mounting and installation

As an immersion sensor Secure the sensor in the respective hole or protection pocket with the help of a holding

spring AQL21... The hole or protection pocket must have an inside diameter of 5.2 mm.

As a strap-on sensor Mount the sensor on the pipe with the help of a cable tie. Thermal coupling to the pipe

can be improved by applying heat conducting wax prior to mounting.



Technical data

For general sensor	Perm. ambient temperature					
data, also refer to "Type	Operation	-30100 °C (plug)				
summary"	Transport and storage	-2570 °C				
	Perm. ambient humidity	< 95 % r.h.				
Norms and standards	Climatic and					
	mechanical requirements	to IEC 721-3	to IEC 721-3			
	Product safety					
	Safety class	III to EN 60 730				
	Insulation resistance	>10 MΩ				
	Electrical strength	>500 V (to the sleeve)				
	Electrical connections	interchangeable				

Dimensions

