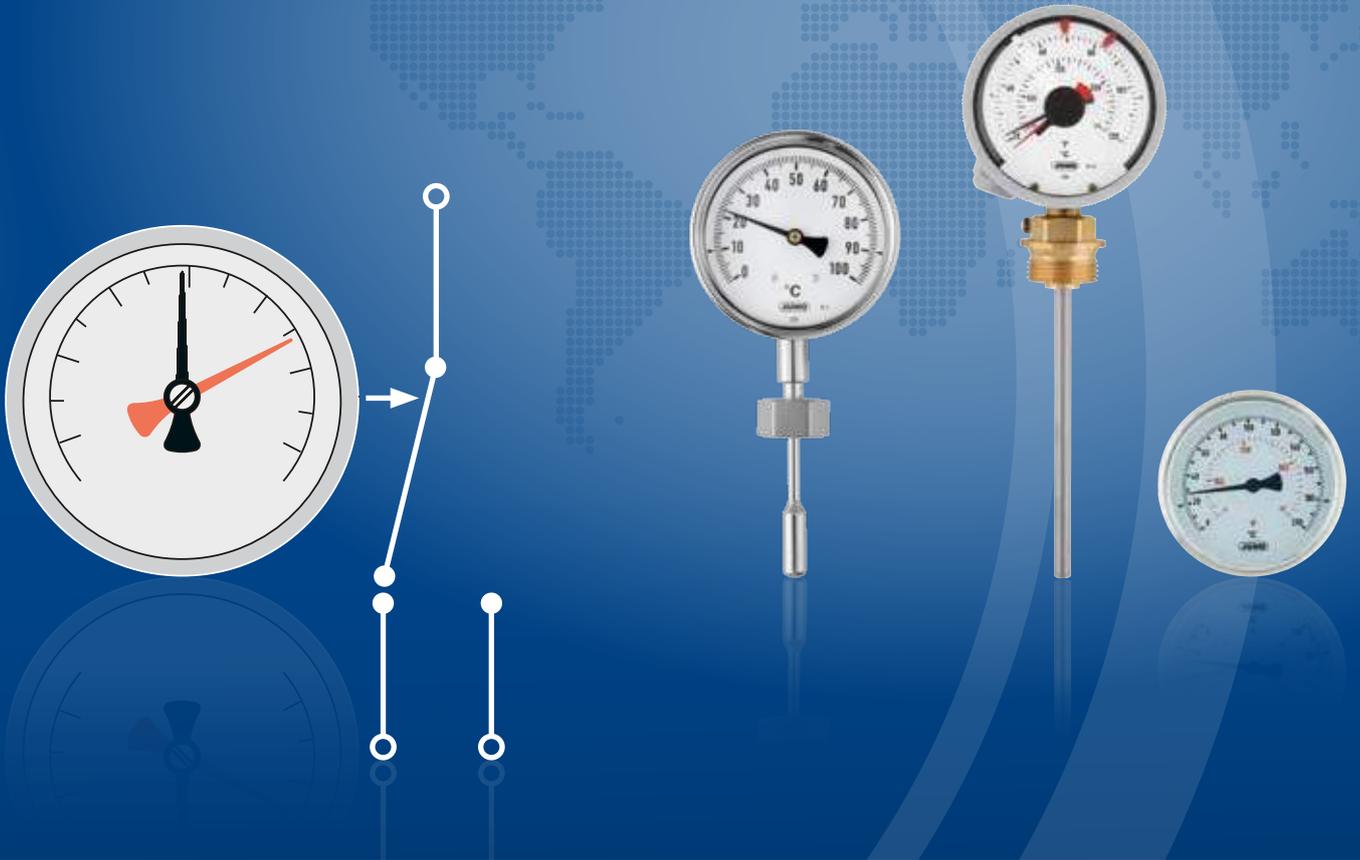




More than **sensors + automation**



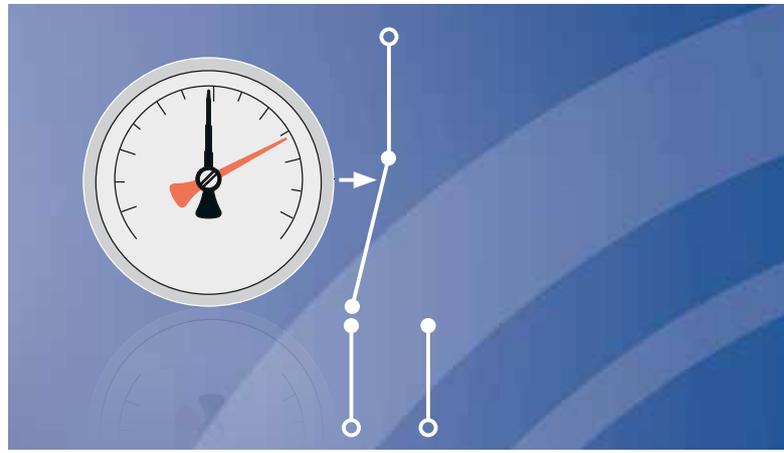
Dial Thermometers

Innovative solutions for the toughest requirements



Contact:

Phone: +49 661 6003-0
Email: automation@jumo.net



Dear Reader,

Life in our modern industrial society is marked by the rapid progress of technology accompanied by the demand for greater safety.

Considering the severity of possible accidents, selective use of reliable products is essential in all sectors of industry. Here, JUMO offers dependable measurement and control technology especially designed for specific applications so that machines and plants can be reliably monitored. The result is that you can efficiently develop your core competence in machine and plant engineering.

We are always in touch with the latest trends so that we can develop and produce a range of products to cover all demanding requirements placed on measurement and control technology.

Dial thermometers from JUMO are state-of-the-art devices that stand for safety and reliability.

Extensive quality control measures ensure the high standard of our products. This is a procedure that proves its worth by continuously being put to the test. Our dial thermometers always reliably measure and monitor temperatures in thermal processes even under extreme environmental influences.

Continuous contact with users of our products enables us to respond precisely to individual needs.

This way we can develop new products that are carefully crafted for the expanding demands of this challenging business segment.

P.S. Further information about our products can also be found at www.jumo.net.



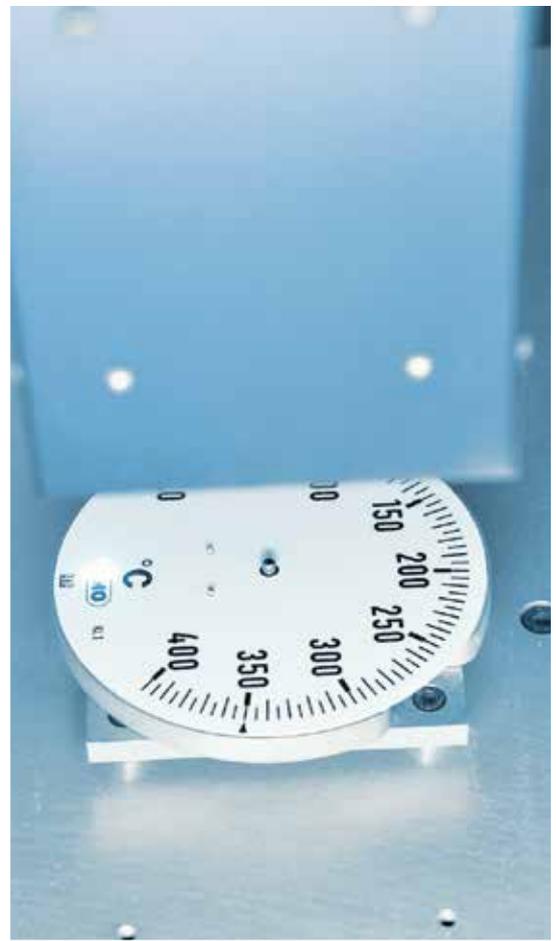
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Measuring systems



Specialized laser method for creating scales



Our wide and varied assortment of dial thermometers offers you the most fitting solution that is customized to the individual requirements of your industry. Decades of experience and refined technologies guarantee you maximum performance and reliable use of your products for many years. Our numerous international locations allow us to have reliable contacts close at hand and personally available to you. They will gladly support you in choosing the optimum products for your specific application. Our service is customer-oriented in every way.



Dial thermometers

The wide assortment of products includes the right solution for almost any industrial application. Adaptations for specific industries and applications are always possible. These customized products can be manufactured individually by choosing from a display range from -50 to $+650$ °C as well as from a large selection of different case sizes, design types, and process connections.



Dial thermometers



	Designation	JUMO bimetal dial thermometer	JUMO dial thermometer transformer version	JUMO dial thermometer with capillary system	JUMO dial thermometer with bayonet housing
General information	Type	<ul style="list-style-type: none"> 608002 608003 Ex 	608005	608201	608225
	Features	<ul style="list-style-type: none"> Stainless steel case 	<ul style="list-style-type: none"> Temperature indicator in the stainless steel case Drag indicator 	<ul style="list-style-type: none"> Temperature indicator in flush-mounted or surface-mounted housing 	<ul style="list-style-type: none"> Temperature indicator in flush-mounted or surface-mounted housing Standard ambient temperature compensation
	Areas of application	<ul style="list-style-type: none"> Mechanical engineering Process technology Transmission construction Chemical industry Plant engineering 	<ul style="list-style-type: none"> Industrial transformers 	<ul style="list-style-type: none"> Oven engineering Compressor engineering 	<ul style="list-style-type: none"> Mechanical engineering Process technology Transmission construction Chemical industry Plant engineering
Technical data	Accuracy class according to DIN EN 13190	Class 1	Class 1.5		Class 1
	Case size	60 mm, 80 mm, 100 mm, 160 mm	80 mm	60 mm, 80 mm, 100 mm	100 mm, 160 mm
	Capillary/ rigid thermowell	Rigid thermowell	1" screw connection, probe 150 mm long for mounting in transformer sleeve	Capillary length possible up to 10,000 mm	
	Probe outlet	Vertical or horizontal			
	Approval	ATEX (608003)	-	-	ATEX

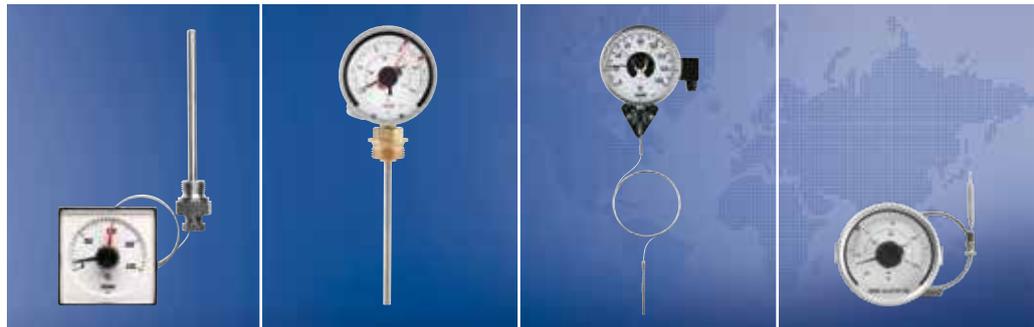
Contact dial thermometers

The function of contact dial thermometers is to display the temperature while simultaneously monitoring and controlling it. Up to two microswitches that are freely adjustable by the user over the entire scale range can be used simultaneously. Circuits up to 5 A, 230 V (optionally up to 10 A, 230 V) can be connected directly.

Gold-plated microswitches are available for applications up to 100 mA.



Contact dial thermometers



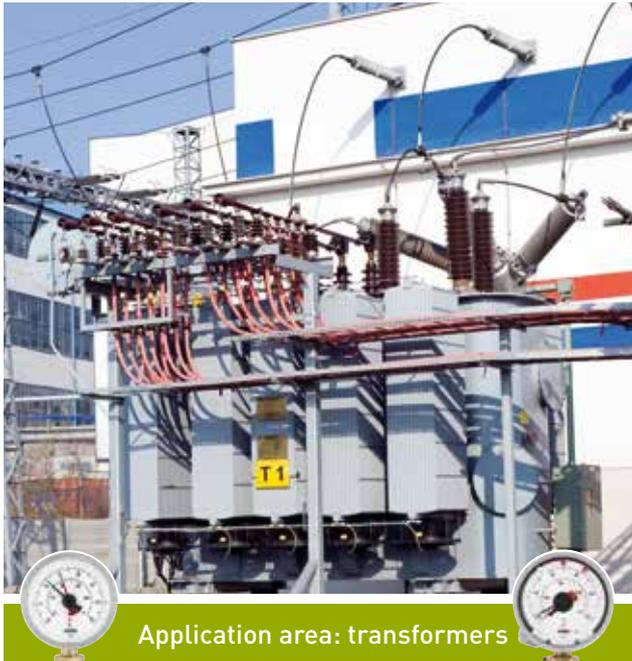
	Designation	JUMO Microstat-M	JUMO contact dial thermometer	JUMO contact dial thermometer in bayonet housing	JUMO dicoTEMP 800 Dial thermometer with microswitch
General information	Type	608501	608520/608523 / 608540	608425	608530
	Features	<ul style="list-style-type: none"> Temperature controller with a microswitch in a plastic flush-mounted housing Sheet steel housing as an optional extra 	<ul style="list-style-type: none"> Temperature controller with up to two microswitches IP65 possible (type 608523) 	<ul style="list-style-type: none"> Temperature controller in panel-mounted or surface-mounted housing Ambient temperature compensation 	<ul style="list-style-type: none"> Temperature controller with actual value display
	Areas of application	<ul style="list-style-type: none"> Compressor engineering Oven engineering 	<ul style="list-style-type: none"> Monitoring of the oil temperature in industrial transformers Process technology 	<ul style="list-style-type: none"> Process technology Oven engineering 	<ul style="list-style-type: none"> Fish and chips industry Industry applications
Technical data	Accuracy class according to DIN EN 13190	Class 2	Class 1.5	Class 1	Class 1.5
	Case size	60 mm, 80 mm, 100 mm	60 mm, 80 mm, 100 mm made from CrNi (608540 made from polyamide, 80 mm only)	100 mm, 160 mm	80 mm
	Capillary/rigid thermowell	With capillary	Rigid thermowell or capillary (up to 10 m)		With capillary
	Probe outlet	–	Vertical or horizontal		–

Dial thermometers in transformers and deep fryers

Dial thermometers are easy and uncomplicated to work with, which explains their widespread use in industrial applications. For example, they are simple to install and the actual temperature can be read directly.

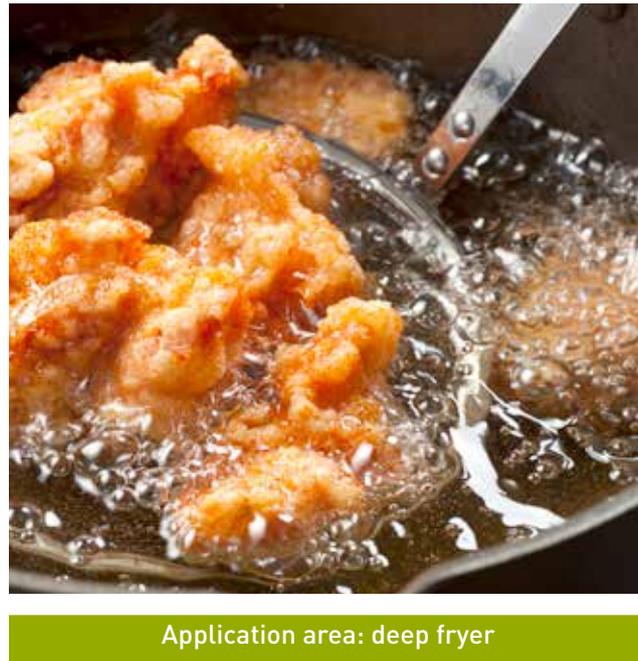


Application examples



JUMO dial thermometer transformer version
Type 608005

JUMO contact dial thermometer
Type 608540



JUMO dicoTEMP 800
Dial thermometer with microswitch
Type 608530

Temperature monitoring in the oil circuit of a transformer

JUMO dial thermometers are used as a monitoring unit in oil-filled transformers. An increase in the oil temperature can indicate insulation failure. When using a temperature indicator the increase in oil temperature can be read directly on the device. If a contact dial thermometer is used, the communication unit can receive the relevant information via a signal from the switch and prevent serious damage.

Temperature monitoring during frying

JUMO dicoTEMP 800 – the dial thermometer with microswitch – is used for controlling the temperature when frying fat in deep fryers. Temperature control makes sure that the frying fat does not overheat, which could otherwise cause it to ignite.

Dial thermometers are exposed to extreme heat and pollution as they are usually installed close to the frying pan. The mechanical design of the dial thermometer enables it to work reliably and precisely despite the extreme environmental influences.



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