

AKM 44612/44622/44617/44618/44650



Direct mount thermometers

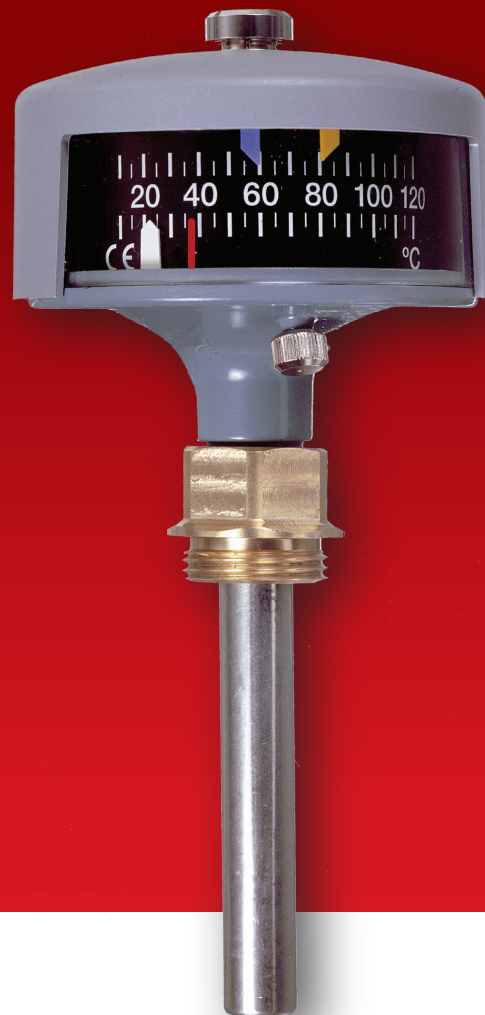
Control and alarm with switches and optional SCADA output

- Designed and tested to ensure quality and performance
- Corrosion resistant materials ensure long life
- Can be used to simulate winding temperature

Product Summary

Description For indication of oil (liquid) or winding temperature in power transformers. Fitted with a resettable maximum temperature pointer and up to 2 integrated switches for alarm and control functions. Available with a Pt100 electronic output for SCADA system integration or remote monitoring.

Application For temperature indication with integrated control and alarm functions. Designed for use where the point of measurement (the well or pocket) is on the top of the apparatus and can be easily viewed.



QUALITROL[®]
Defining Reliability

AKM 44612/44622/44617/44618/44650 direct mount thermometers

Control and alarm with switches and optional SCADA output

- Available with up to 2 contacts (switches) to control cooling and trigger alarms
- Contacts can be set to trigger anywhere within the range of 10-120°C
- Optional SCADA (Pt100) output allows for remote monitoring and data acquisition

Designed and tested to ensure quality and performance

- Maximum temperature pointer shows highest value reached since last reset
- Provides accuracy within $\pm 2^{\circ}\text{C}$ between 50°C and 120°C
- Measurement accuracy within $\pm 2^{\circ}\text{C}$ between 50°C and 120°C
- Switching accuracy within $\pm 3^{\circ}\text{C}$ between 50°C and 120°C

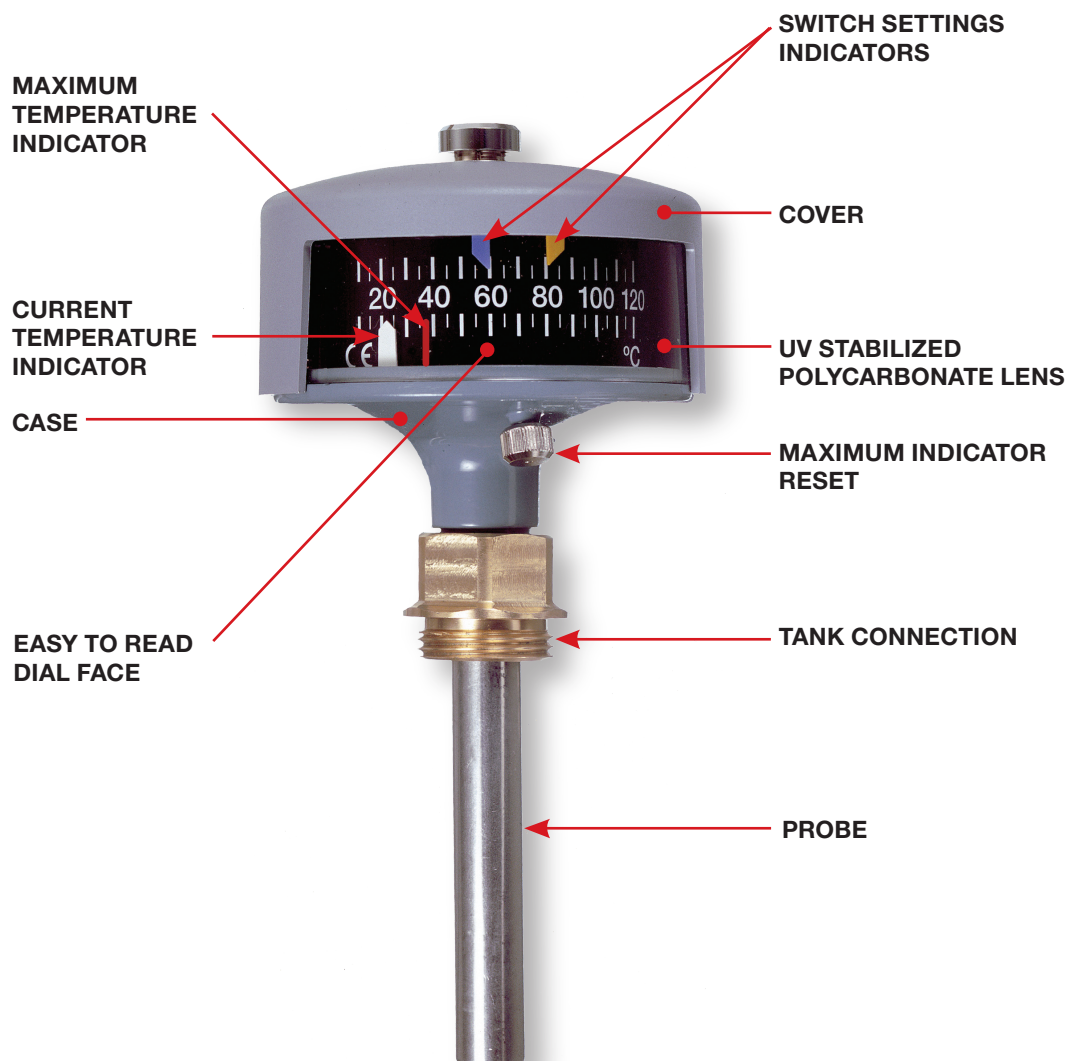
Corrosion resistant materials ensure long life

- Rugged cast-aluminum case with thermosetting powder coat finish
- Weatherproof, glass reinforced thermoset plastic cover
- UV stabilized polycarbonate lens

Can be used to simulate winding temperature

- Heating element is built into the thermometer probe allowing for quick and easy installation

44612, 44617, 44618 and 44622 features

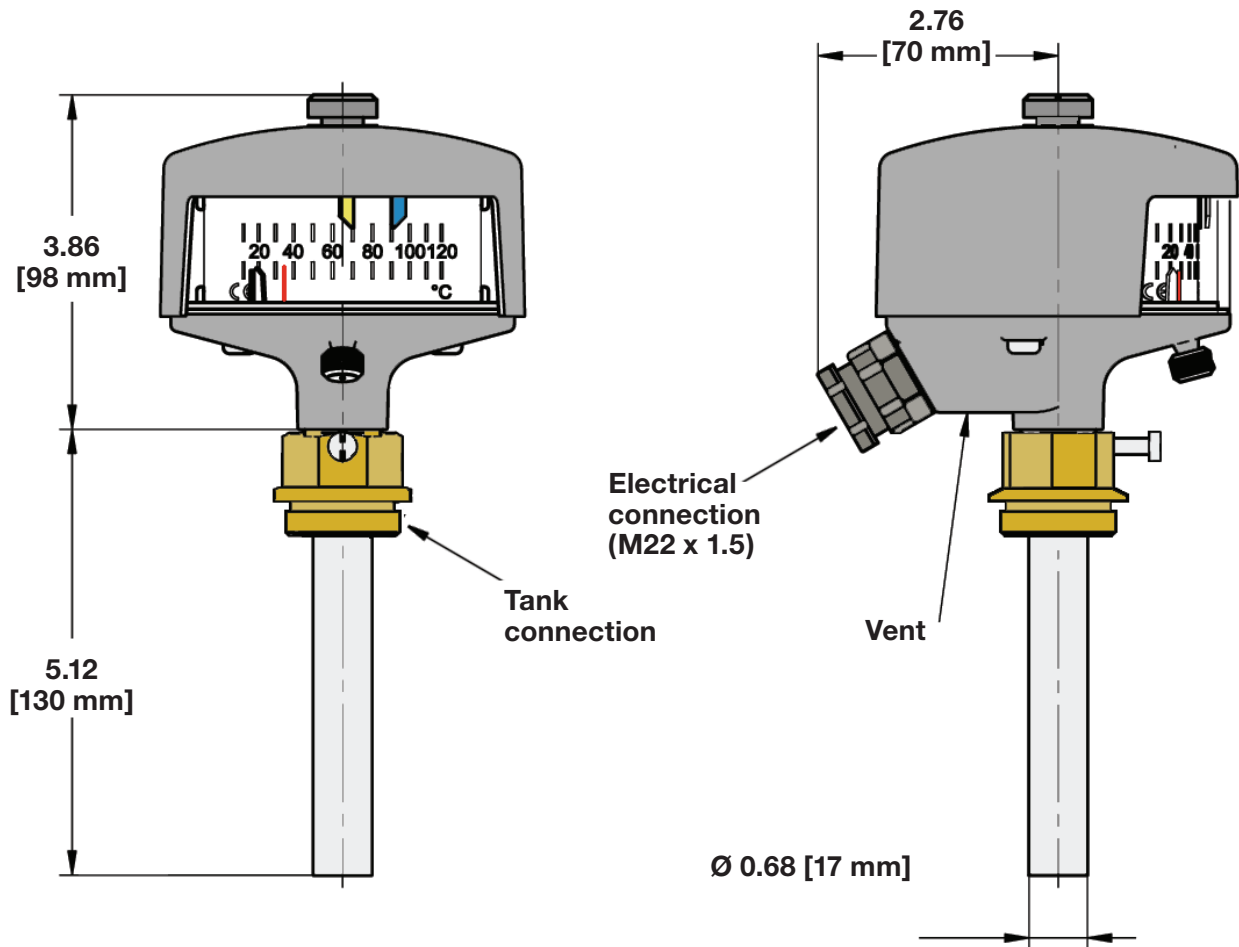




TECHNICAL SPECIFICATIONS

Mechanical	Weight	Approximately 1.10 lbs (0.5 kg)
	Mounting	Top mount
	Standard dial ranges	10-120°C, 0-130°C, -20-120°C, 60-150°C
	Tank connection	G 3/4", G 1.00", 50 mm x 50 mm flange mount, G 3/4" female
	Indicating accuracy	±2°C between 50°C and 120°C
Dimensions	Dial height (from transformer wall)	4.61" (117 mm)
	Probe immersion depth	3.74" (95 mm)
	Probe diameter	0.67" (17 mm)
Materials	Case	Die-cast aluminum with thermosetting powder coat
	Cover	Glass reinforced thermoset plastic
	Lens	UV stabilized polycarbonate
Environmental	Ambient operating temperature	-40 to +158 °F (-40 to 70°C.)
	Weather-proof rating	IEC 529 protective class IP55
Electrical	Number of switches	up to 2 (standard)
	Switch rating (AC)	5A @ 250 VAC
	Switch rating (DC)	0.3A @ 110 VDC (L/R ≤ 10 ms)
	Switching accuracy	±3°C between 50°C and 120°C
	Switch differential	Approximately 5°C
	Dielectric isolation	2000 VAC for one minute
	Cable gland	M22 x 1.5 (various per model)

Model name	Standard dial range	Probe diameter (mm)	Probe length (mm)	Tank connection	Corresponding well (pocket)
44600	10-120	17	110	Ø22mm O ring	48459-1 or 48459-2
44612	10-120	17	110	G1"	-
44617	10-120	17	110	square 50 mm flange	-
44618	10-120	17	110	M22 x 1.5	-
44622	10-120	17	110	G 3/4"	44601
44630	10-120	12.5	160	G 1/2"	-
44650	10-120	17	109	G - size per model	-



Don't see what you need?

QUALITROL regularly creates models with special customer requirements. Contact your local sales representative or QUALITROL Application Engineer to review your special requirements.

QUALITROL® Field Services

To further improve reliability, QUALITROL provides comprehensive education and on-site commissioning services, maintenance contracts and technical support to all customers worldwide. Emergency response is available on all products and services.

About QUALITROL®

QUALITROL Company LLC manufactures substation and transformer monitoring and protection devices used by electric utilities and manufacturing companies. It is the global leader in sales and installations of transformer asset protection equipment, fault recorders and fault locators. Established in 1945, QUALITROL Company produces thousands of different types of products on demand, each customized to customers' unique requirements.

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