QUALITROL_® 105

Remote mount thermometers



Minimize the space required for remote indication

- Control cooling, alarms and other auxillary equipment
- Increase reliability with rugged design and corrosion resistant materials
- Simplify installation and operation

Product Summary

Description Capillary based, remote indicating, mechanical thermometer. Features a compact design for space restricted applications and bourdon tube measurement with resettable maximum pointer. Available with up to 3 switches for temperature related alarms and control signals.

Application Typically used to measure oil (liquid) or simulated winding temperature with integrated features for control or alarm functions. Can also be used on dry type transformers for temperature indication. Designed for use where the point of measurement (the well or pocket) is not easily viewed by personnel requiring seperate or remote indication. Special models available for bearing temperature applications.





Minimize the space required for remote indication

- 5.75" (146 mm) outer case diameter for small installation footprint
- 120° dial deflection (angular range of pointer) and 5" (127 mm) dial face for easy interpretation of measurement

Control cooling, alarms and other auxillary equipment

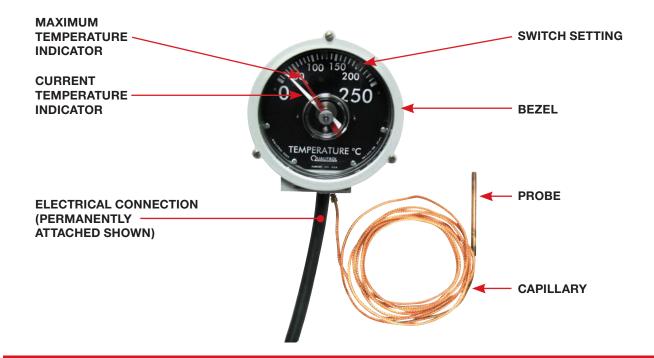
- Up to 2 user adjustable switches (contacts) and one additional fixed switch (set by the factory) for control and alarms
- Multiple switches can be set to actuate at same temperature and lockdown screws reduce the effects of vibration and tampering on the switch settings
- UL and CSA recognized switches

Increase reliability with rugged design and corrosion resistant materials

- Vented (free-breathing) models feature dual breathers that act as vacuum breakers to prevent unwanted moisture intake
- Molded neoprene channel gasket uniformly clamped in place with a powdercoated, die-cast aluminum bezel ring and stainless steel hardware, sealing against water entry around entire lens
- Reset knob magnetically coupled through front of lens reduces the possibility of moisture entry
- UV-stabilized polycarbonate lens has high-impact strength and resists clouding and yellowing with age
- Double-braided armored capillary tube withstands environmental extremes
- Die-cast aluminum housing resists corrosion with thermosetting powder coat finish

Simplify installation and operation

- Mounts directly onto the transformer or to optional shock mount
- "Quick-test" feature simplifies switch actuation and corresponding controlled function testing-to use, simply move the indicating pointer through the dial range, past switch settings, and note proper operation
- "Quick-test" features a no-stress spring-loaded clutch which prevents damage to internal mechanism during testing
- Maximum temperature indicator shows highest value reached since last reset

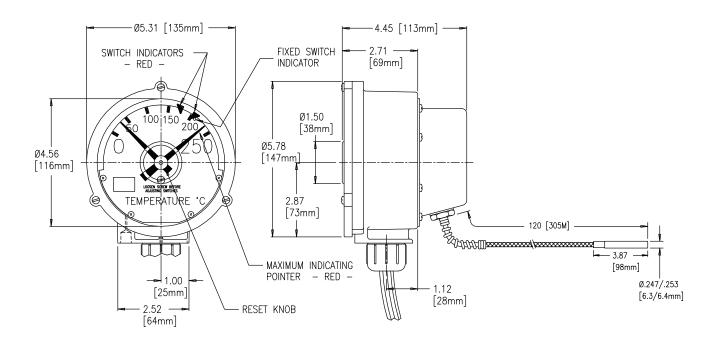






Mechanical	Woight	Approx. 2.10 lbs (1.40 kg)
	Weight	Approx. 3.10 lbs (1.40 kg)
	Mounting	Vertical (back plate or panel mounting)
	Standard dial ranges	0-120°C, 0-160°C, 0-180°C, 20-180°C, 0-200°C, 0-220°C, 0-250° (custom dials are available)
	Probe connection	7/8-14 UNF-2A (standard)
	Well connection (external)	1/2-14 NPT (standard)
	Accuracy	+/- 2% of dial range
	Compensation	+/- 2% of dial range
Dimensions	Dial diameter	4.5" (114.3 mm)
	Case diameter	5.31" (134.9 mm)
	Probe length	3.87" (98.3 mm)
	Probe diameter	0.481" (12.2 mm)
Materials	Case	Die-cast aluminum, ASA #70 light grey thermosetting powder coat finish
	Lens	UV stabilized polycarbonate
	Probe connection fitting	Brass
	Well	Brass, stainless steel
	Probe	Brass (standard)
	Capillary tube gaurds	Double braided copper or square lock steel conduit
Environmental	Std. operating temperatures	-30 to 140°F. (-34 to 60°C)
	Case style	Vented case (standard)
Dial readability	Scale layout	120° angular deflection (standard)
	Characters	0.25" and 0.50" high (6.35 and 12.7 mm high)
Electrical	Switch type	Snap action, SPST or SPDT
	Number of switches available	Up to 3 (2 adjustable and 1 fixed)
	Switch rating (AC)	10A @ 125, 250 & 480 VAC
	Switch rating (DC)	1/4A @ 250 VDC - resistive
		1/2A @ 125 VDC - resistive
		1.5A @ 48 VDC - resistive
	Electrical connection options	QUALITROL, military, ANSI, flying leads, or permamently attached cable
	Switch setting accuracy	+/- 2% of dial range (with the pointer rotating at a speed of 25% of the dial range/minute)
	Switch setting repeatability	+/- 1.250% of dial range (with the pointer rotating at a speed of 25% of the dial range/minute)
	Dielectric strength	1500 VAC for one minute







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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