

FIXED TEMPERATURE THERMOSTATS

20700 SERIES
SNAP-ACTION, AUTOMATIC RESET



COMT-7B



Actual Size

- High Capacity
Heavy Duty Construction
- Low Cost
- Small Size — Lightweight — this $\frac{1}{2}$ " disc-type thermostat weighs only 4 grams
- Single Break — one set of contacts insures circuit reliability
- Molded Phenolic Case — seals out lint, dust and other contamination
- Positive Temperature Control — KLIXON® snap-action disc insures accurate temperature repeatability
- Tamperproof — fixed temperature setting is factory calibrated to your specification

KLIXON 207 series thermostats are fixed-setting, snap-acting, automatic-reset temperature controls especially designed for table-top appliances and small electrical equipment.

These thermostats are ideal for use where space and ease of assembly are important production factors. They are available with flat and 90° quick-connect or solder terminals with shoulder mountings and convenient flanges for through-wall or surface mounting. In addition, the flat and 90° quick-connect terminals are $\frac{1}{4}$ " and $\frac{3}{16}$ " wide to fit standard AMP and Ark-Les terminals.

207 series thermostats are available as limit switches (open on temperature rise) or fan switches (close on temperature rise). The switch mechanism, actuated by the KLIXON snap-action, bimetallic disc, is enclosed in a molded phenolic case. The disc is located at the bottom of the thermostat cup where temperature changes are quickly transmitted to give a high degree of thermal sensitivity. Switch action is SPST. The thermostat can be furnished in either enclosed or exposed disc construction.

ENGINEERING SERVICE

A KLIXON field engineer, who knows your temperature control problems and how our products solve them, is located close at hand. Use his services to eliminate needless engineering cost and give your products a competitive edge.

CERTIFIED QUALITY

KLIXON *certified quality* cuts your total cost of appliance thermostats by a rewarding figure. Why? Because it reduces the cost of receiving inspection. Some of our older customers skip receiving inspection entirely, others continue inspection but at a reduced sampling rate. Reason: KLIXON thermostats consistently conform to rigid specifications.

Frequent quality control tests and inspections apply to all components and assemblies. Not just along the production lines, but also up to the moment of shipment. Before each shipment is certified, contents are checked against production quality control records . . . and duplicate copies are enclosed. Only then is the KLIXON Certified Quality label signed and attached to the shipping carton. How much extra do you pay for KLIXON Certified Quality? Absolutely nothing! Ask for a quotation . . . and see.

ELECTRICAL RATINGS

U/L and CSA recognized for temperatures to 350°F.

100,000 Cycle Ratings		
120 v-ac	240 v-ac	277 v-ac
125 Volt Amp Pilot Duty	125 Volt Amp Pilot Duty	7.2 Amp Resistive
15 Amp Resistive 5.8 FLA 34.8 LRA	10 Amp Resistive 2.9 Amp FLA 15.0 LRA	

Gold-surfaced contacts for use with millivolt and other low-powered circuits are available in place of standard fine silver contacts.

TEXAS INSTRUMENTS
INCORPORATED

The 20700 series thermostats can be mounted in any location. To meet customer requirements, these thermostats are available in a variety of flange or cup styles. In addition to the mountings shown below, a ceramic cap is also available for spring mounting.

SAMPLES

Operating test samples are available from the factory approximately 5 days. **UUTIMHEAT® VIRTUAL MUSEUM** operating thermocouple samples are also available (specify iron constantan or copper constantan thermocouple and length required). When ordering samples, specify the type mounting desired, enclosed or exposed sensing element, type terminals, minimum life cycle expectancy necessary, load requirements, function of control, appliance to which they are being applied, and estimated yearly usage.



TERMINALS

Standard 1/4" x 0.032" quick connects are available in offset or flat configurations.		Standard 3/16" x 0.020" quick connects are available in inset, offset or flat configurations. Flat solder terminals are also available with 0.078" or 0.125" diameter hole.		
OFFSET 90°	FLAT	INSET 90°	OFFSET 90°	FLAT

MOUNTING ARRANGEMENTS

DIMENSION "A"	20700 = 0.382	20704* = 0.472	*FOR SPECIAL APPLICATIONS REQUIRING 1/4" CLEARANCE.
ENCLOSED DISC		EXPOSED DISC	
	NO FLANGE		ROUND EARED SURFACE FLANGE
	INTEGRAL SURFACE FLANGE		TOP OVAL FLANGE

TEMPERATURE SETTINGS, TOLERANCE & NOMINAL DIFFERENTIALS

The range of temperature settings, tolerances and nominal differentials shown here are standard. Selection of larger differentials and wider tolerances will afford a lower unit price. If settings other than standard are desired, send details for individual consideration.

TEMPERATURE SETTINGS		TOLERANCES		MIN. MEAN TEMP. DIFFERENTIAL
OPEN	CLOSE	OPEN	CLOSE	
-20	200°F	±5	±7	15-19°F
-20	200°F	±5	±7	20-24°F
201	250°F	±6	±8	20-24°F
-20	200°F	±5	±7	25-39°F
201	250°F	±6	±8	25-39°F
251	300°F	±7	±10	25-39°F
-20	200°F	±5	±7	40-80°F
201	250°F	±6	±8	40-80°F
251	300°F	±7	±10	40-80°F
301	350°F	±10	±20	40-80°F



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