



# KLIXON® | Probe Assemblies

## Custom Immersion-Type Thermostat Probes

### FEATURES

- Various Klixon® thermostats in custom probe assemblies
- Preset temperature set points, non-adjustable calibration
- Normally open or normally closed
- Hermetically sealed (probe only)
- Extreme temperature, fast response, narrow differential or custom probe assembly configurations
- Qualified to MIL-S-24236, MIL-S-24236/2, MIL-S-24236/11, and MIL-S-24236/25 (order by MS number)

### INTRODUCTION

To meet a wide range of application requirements, Klixon® probe-type thermostat packages are available in a variety of sizes, configurations, and thermal characteristics. Select from one of our existing designs, or specify custom requirements to suit your needs.

- **Extreme Temperature Probes:**  
Constant speed drives, aircraft refrigeration systems, food processing equipment, and missile hydraulic systems often require protection from or indication of extreme high or low temperatures. These Klixon® snap-acting thermostat probes are designed to provide reliable, consistent performance over a long cycle life in the harshest of environments. These probes provide excellent shock and vibration resistance and operate as low as -54°C (-65°F) and as high as 288°C (550°F) and incorporate the reliable Klixon M1/11041 thermostat.
- **Fast Response Probes:**  
Quick response to rapidly changing temperature is a virtue of the low thermal mass series of probe. The Klixon® 3BT Tiny Stat™ is located at the end of the probe for ultimate sensitivity. Quick response to rapidly changing temperatures is a virtue of the low thermal mass series probes.
- **Narrow Differential Control Probes:**  
These thermostat probes accurately open and close with a narrow 1°C to 4.4°C (2°F to 8°F) differential, providing close temperature control in applications ranging from environmental to power tube coolant systems. Probe assembly incorporates the reliable Klixon® M2 thermostat.



## STANDARD PART NUMBER BUILDER

**21542 - 03 - XXX - 01**

1. Package Type \_\_\_\_\_

*Extreme Temperature (M1 thermostat)*

**21542** = 3/4" - 16 thread w/ connector

**21543** = 1/2" pipe thread w/ leads

**21548** = 3/4" - 16 thread w/ leads

**21549** = 1/2" pipe thread w/ connector

*Narrow Differential (M2 thermostat)*

**21545** = 1/2" pipe thread w/ leads

**21546** = 3/4" - 16 thread w/ connector

**21547** = 3/4" - 16 thread w/ leads

**21550** = 1/2" pipe thread w/ connector

*Fast Response (3BT thermostat)*

**21544** = 1/8" pipe thread with leads

**21557** = 1/8" pipe thread with connector

**21561** = 7/16" - 20 thread with leads

**21562** = 7/16" - 20 thread with connector

2. Probe Length \_\_\_\_\_

**XX** = value of 2 times the length of probe needed  
 Probes lengths available in 1/2" increments from 1" to 6",  
 length measured from bottom of hex to tip of probe  
*For example, for a 1.5" probe, part number would  
 require a **03***

3. Operating Characteristics \_\_\_\_\_

**XXX** = 3-digit code to be assigned by Sensata Technologies  
 based on the customers specific requirements for the  
 thermostat within the assembly

4. Wire Lead \_\_\_\_\_

**01** = 6"

**02** = 12"

**03** = 18"

...etc...

Lengths are in increments of 6 inches.

For connectors, please contact Sensata Technologies  
 for the code