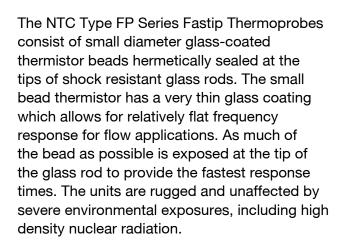


NTC Type FP07 Thermometrics Fastip Probe Thermistor



The NTC Type FP Series Fastip Thermoprobes are ideally suited for high speed measurement and control of fluid temperatures, fluid level or flow. They offer the ease of handling associated with large glass probe thermistors as well as ultra-fast response times of small glass coated bead thermistors. These units exhibit relatively flat response to flow input from 200 Hz to 1000 Hz.

Features

- Ultra-Fast Response Time
- Rugged, Unaffected by Severe Environmental Exposures
- Relatively Flat Frequency Response
- Ease of Handling

Applications

- Sub-Sea Monitoring
- High Speed Fluid Temperature Measurement & Control
- Industrial

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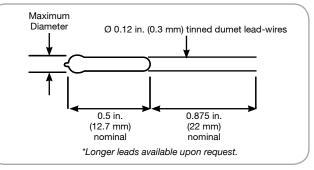
Type FP07 Specifications

Thermal and Electrical Properties

The following table lists the thermal and electrical properties for all large ruggedized thermobeads. All definitions and test methods are per MIL-PRF-23648.

Thermistor Type			FP07			
Maximum Diamete	0.085 in. (2.2 mm)					
Body Length	0.5 in. (12.7 mm)					
Lead Wires						
Nominal Diameter	0.012 in. (0.30 mm)					
Lead Length	0.875 in. (22 mm)					
Lead Material		Tinned dumet				
Material System						
Code Letter	R vs T Curve	25/125 Ratio	Nominal Resistance Range (Ω) @ 77°F (25°C)			
E	0	5.0	-			
A	1	11.8	300 to 600			
A	2	12.5	680 k to 1.6 k			
A	3	14.0	1.6 k to 3.6 k			
A	4	16.9	3.6 k to 6.8 k			
A	5	19.8	6.8 k to 27 k			
A	6	22.1	-			
A	7	22.7	27 k to 75 k			
В	8	29.4	75 k to 130 k			
В	9	30.8	130 k to 240 k			
В	10	32.3	240 k to 360 k			
В	11	35.7	360 k to 820 k			
В	12	38.1	820 k to 13 M			
В	13	45.0	1.3 M to 3.3 M			
В	14	48.1	3.3 M to 6.8 M			
В	15	56.5	6.8 M to 10 M			
D	16	75.6	-			
D	17	81.0	-			

Resistance vs temperature characteristics: The nominal resistance range for the zero-power resistance at 77°F (25°C) is shown for each thermobead type and each available material system. Each material system is denoted by an ordering code letter, a referenced curve number and the nominal 77°F/257°F (25°C1/25°C) resistance ratio.



NTC Type FP07 Dimensions

Thermistor Time Constant	FP07			
Still Air at 77 °F (25°C) Plunge into Water	0.10 sec 7 msec			
Dissipation Constant				
Still Air at 77 °F (25°C)	0.05 mW/°C			
Still Water at 77 °F (25°C)	0.25 mW/°C			
Power Rating (in air)				
Maximum Power Rating	0.006 Watts			

Ordering Information

The code number to be ordered may be specified as follows:

Code		Model Number					
FP	07 Code D	Probe L 0.5 (12.7	mm) ngths availa Materia		ode ectrical Properties wer Resistance		
↓				Ĩ	(consult factory)		
FP	•		•		Typical model number		

*The zero-power resistance at 77°F (25°C), expressed in ohms (Ω), is identified by a three digit number. The first two digits represent significant figures and the last digit specifies the number of zeros to follow. Example: A Fastip probe with a 7 msec response time in water, 10 k Ω ±25% at 77°F (25°C) would be coded FP07DA103N.

**Special tolerances are available on request. To specify a non-standard tolerance, use the letter 'S' followed by the desired tolerance (i.e., $S7 = \pm 7\%$).

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