

SERIES 4100 IMMERSION-TYPE THERMOSTATS



An immersion thermostat designed to provide low-cost thermal protection in temperature ranges from 40° to 120° Celsius (104° to 248° Fahrenheit) in 5° increments, the 4100 uses a technology perfected by Airpax over 20 years. Its standard gold-plated crossbar contacts allow it to be used in very low-current, low-voltage applications. The bimetal switching provides excellent repeatability, and total isolation.

The 4100 features epoxy/crimp protection that enables it to meet NEMA 4 and 13 (IP67) standards. It can withstand a variety of harsh environments, including pressure washing. The thermostat is available in both English and metric housings, with a wide assortment of terminations, including standard automotive connectors, in either isolated or grounded case configurations.

Typical applications for the Airpax 4100 include monitoring the temperature of engine manifolds, oil, coolant and hydraulic systems. It is also suited to refrigeration systems, heat exchangers, and HVAC systems. These applications are found in such varied segments as off-road vehicles, air compressors, marine engines, mining equipment, long-haul trucks, railroads, public transportation, and engine-generator sets.

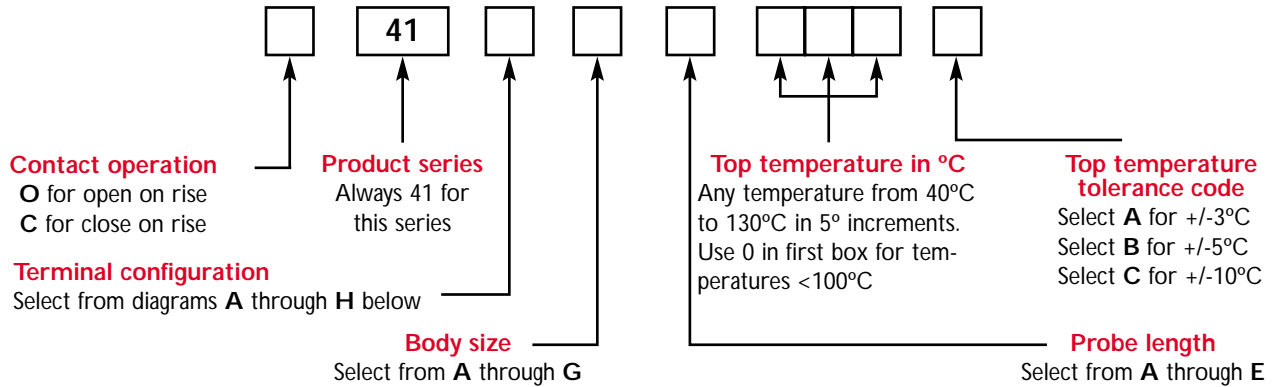
AIRPAX
www.airpax.net

SPECIFICATIONS

Protection	Epoxy/crimp (NEMA 4 & 13)
Material	Brass
Minimum tube diameter	
Standard pressure rating	1500 PSI
Electrical design	Isolated or grounded housing
Contact type	SPST
Contact rating at	
12VDC	-
12VAC	-
28VDC	3A at 5,000 cycles
32VDC	1A at 30,000 cycles
32VAC	-
120VAC	1A at 30,000 cycles
240VAC	-
Contact operation	NO or NC
Max. temp. range	40-130°C/104-266°F
Temperature range 1	40-80°C/104-176°F
Standard tolerance 1	± 5°C/9°F
Differential 1	30°C/54°F max
Temperature range 2	85-90°C/185-194°F
Standard tolerance 2	± 5°C/9°F
Differential 2	35°C/63°F max
Temperature range 3	95-130°C/203-266°F
Standard tolerance 3	± 5°C/9°F
Differential 3	45°C/81°F max
Optional tolerance A	± 3°C/5.4°F
Optional tolerance C	± 10°C/18°F
Optional tolerance D	-
Shock specification	MIL 202, 213 C
Vibration specification	MIL 202, 204D
Dielectric strength	600VAC, 60Hz terminal to case
Approvals	

HOW TO SPECIFY YOUR AIRPAX 4100 SERIES THERMOSTAT

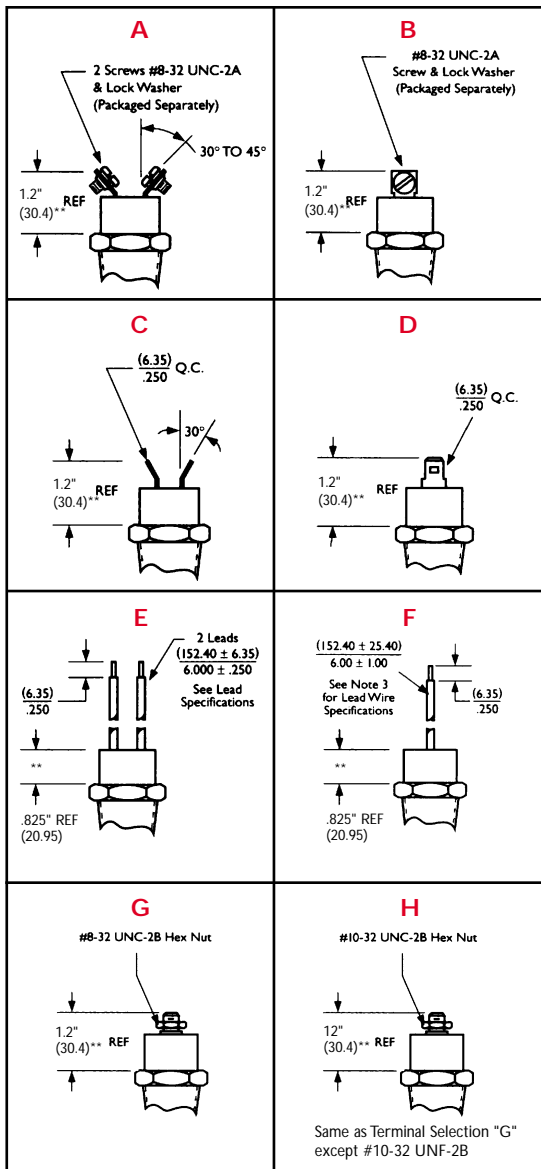
Fill in the boxes with your choice of features to create an Airpax part number. We'll build it to order.



Body	Thread	Length	Hex
A	1/4"-18 NPTF	.485"	.688" X .225"
B	3/8"-18 NPTF	.585"	.688" X .225"
C	1/2"-14 NPTF	.656"	.875" X .225"
D	3/4"-16 UNF	.498"	1.0" X .345"
E	M14-1.5	11mm	22mm X 5.7mm
F	M16-1.5	11.5mm	24mm X 5.7mm
G	M18-1.5	12.5mm	27mm X 5.7mm

Probe	Length	
	in.	mm
A	0"	0
B	.5"	12.7
C	1.0"	25.4
D*	1.5"	38.1
E*	2.0"	50.8
F	.750"	19.1

*Not available with body sizes A, E, or F



4100 Series Standard Temperature Calibrations (C°)

Nominal Operating Temperature	Minimum Differential	Minimum Reset Temperature
40	4	20
45	4	20
50	4	30
55	4	30
60	4	40
65	4	40
70	4	50
75	4	50
80	6	55
85	6	55
90	6	60
95	6	60
100	6	70
105	6	70
110	6	80
115	6	80
120	9	85
125	9	85
130	9	90

Identification marking will be on hex flats or outer tube.

AIRPAX CORPORATION
 550 Highland St.
 P.O. Box 550
 Frederick, MD 21701 USA
 1.301.663.5141
 fax 1.301.698.0624
www.airpax.net

** : When using probe length "A" add 0.50" to length.