

# Control Products Inc.

## Thermal Switches for Aerospace Applications



CPI manufactures high-endurance waterproof and thermal switches plus indestructible hydraulic position sensors for one purpose – to bring precision, efficiency, reliability and safety to your equipment, in the most demanding applications.



### Thermal Switches

CPI offers precision thermal switches based on three highly developed product platforms, providing a broad array of temperature and performance capabilities.

- Qualified to RTCA-DO-160
- Fire and overheat protection (Fenwal direct replacement)
- Set points -17°C to 950°C available
- Rapid response time

#### SnapStat Specifications

**-17°C to 150°C setpoint range**  
*snap-action, wide differential*

**Electrical rating:**  
28VDC/120VAC  
5 amps resistive, 3 amps inductive. Gold contacts available special order.

**Setpoint tolerance:**  
± -13°C (std); ± -5°C (special)

**Differential:**  
-12°C to -3°C

**Configurations:**

- SPST (NO, NC), SPDT
- various MIL connectors
- probe length variations available

#### PlugStat Specifications

**-17°C to 340°C setpoint range**  
*close tolerance (+/- 16°C)*

**Electrical rating:**  
28VDC/115VAC  
2 amps resistive, 1/2 amp inductive

**Setpoint tolerance:**  
± -15°C (std); ± -16°C (special)

**Differential:**  
-17°C to -15°C

**Configurations:**

- SPST (NO, NC)
- various MIL connectors
- dual setpoint, ground-to-case models available

#### Rod & Tube Specifications

**-17°C to 950°C setpoint range**  
*very rapid response time (1-5 sec)*

**Electrical rating:**  
28VDC/115VAC  
1.5 amps resistive, 1/2 amp inductive

**Setpoint tolerance:**  
please consult factory

**Differential:**  
-17°C to -15°C

**Configurations:**

- SPST (NO, NC), SPDT
- various MIL connectors
- variable probe lengths
- ground-to-case models available

CPI Thermal Switch Applications on Aircraft Components & Systems Since 1946

Over-Temp & Temperature Control Switches

Application	Switch Model	Company	Program
ECS bleed air O/T	X1030	Honeywell	Learjet L45
Coolant system O/T	L1014	MD Helicopters	MD500 Series
Engine compartment fire detection	X2020	Aurora Flight Sciences (Boeing)	Orion
Engine inlet anti-ice system	M1002	Cessna (Textron)	Citation 5
Environmental Control Systems	M2 various M2015 M2001 M2046	Collins (Hamilton Sundstrand) Sikorsky Saab Scania Honeywell Yeovil	747, 737, DHC7, Fokker S-76 Blackhawk SF340
Oxygen generating system	M2102	Northrop Grumman	E-2D
Starter system	X2004	Sikorsky (Lockheed)	VH-60
Hydraulics O/T	AD059, AD065 AD192	Pneudraulics Columbia Helicopters	747 Model 234 (Chinook)
Engine / Rotor Oil O/T	S2003, S2004	Sikorsky	S-70, S-76, S-65
APU oil O/T	M2002	Collins (Pratt & Whitney)	S-76 Blackhawk
Hydraulic reservoir	M2146	Arkwin	HA-420 HondaJet
Fire detector	X2003 X1040	Diamond Aircraft Team JAS	de Havilland Twin Otter
Engine, main gearbox, oil temperature	L1007, L1015	Leonardo / Agusta	A109, P109
Anti-ice system, bleed air O/T	X2019	Kawasaki Aerospace Co.	P-1 patrol aircraft



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