



CustomControlSensors

Dual Snap®

Pressure, Temperature and Liquid Flow

www.ccsdualsnap.com

Fluid Pressure Switch & Temperature Sensor - 8GRTD

Reliable Pressure Switch & RTD Design

CCS introduces a new multi-function pressure switch and temperature sensor in a single compact housing for monitoring the pressure and temperature of aircraft fluids, including fuel, engine oil and hydraulic fluid.

The CCS 8GRTD Series design is based on a combination of two (2) proven sensing technologies. The first is a CCS Dual-Snap pressure switch. The second is a wire wound Platinum Resistance Temperature Detector (PRTD). The PRTD is designed and constructed to the Global IEC751 Standard and is commonly used on aircraft applications.

Low Cost Solutions

The CCS 8GRTD Series saves money, weight and time by combining two (2) sensing features in one package.

Flexible Mechanical & Electrical Options

CCS offers standard, all stainless, hermetic designs for value and schedule considerations or can customize a design to your requirements. Mechanical options include: flange or threaded fittings and various pressure switch ranges.

Electrical options include: SPDT or DPDT pressure switch indication and dual RTD elements for sensing redundancy.

Custom Control Sensors (CCS) Experience

CCS has been a global leader in the design, testing and manufacturing of pressure, temperature and liquid flow products for the Aerospace, Defense and Industrial markets since 1958. CCS' experienced engineering and manufacturing staff can provide innovative solutions for the most demanding aircraft requirements.

Time-Tested Solutions. Reduced Costs & Time.

United States Office
21111 Plummer Street
Chatsworth, California 91311
Tel: +1 818.341.4610
switchnet@ccsdualsnap.com



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Features & Options

- * Hermetically Sealed
- * All Stainless Steel Construction
- * Flange Mount or Threaded Fitting Options
- * Pressure Switch Ranges:
 - Low: 3 to 25 psi (21-172 kPa)
 - Medium: 6 to 100 psi (41-689 kPa)
 - High: 35 to 600 psi (241-4137 kPa)
- * Media Temperature Range:
 - 55°C to 150°C
- * RTD Accuracy: ± 0.5°C
- * RTD Response Time: 8 Seconds Max
- * RTD Available with 2 or 3 Wires
- * Single or Dual RTD Element Options





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RTD Specifications

Media Temperature Range:
-67° to 300°F (-55° to 150°C)

Resistance vs. Temperature (Ref. DIN43760/IEC751)
(RTD Curve to International Electrotechnical Commission IEC Standard)

Temperature	Resistance
32°F (0°C)	100.00 ± .40 Ω
212°F (100°C)	138.50 ± .75 Ω

Insulation Resistance:
40 MΩ minimum at 500 VDC
Lead wires to case

Dielectric Strength:
1060 Volts RMS at 60 Hz for 60 seconds
Lead wires to case
2 mA maximum permissible leakage

Response Time: 8 seconds maximum

Pressure Actuation Range

PSIG (kPa)

RANGE	INCREASING	DECREASING	PROOF
-1	3-25 (21-172)	1-21 (7-145)	200 (1379)
-2	6-100 (41-689)	2-85 (14-586)	300 (2068)
-3	10-35 (69-241)	4-29 (28-200)	4500 (31026)
-4	35-600 (241-4137)	28-480 (193-3309)	4500 (31026)

Dead Band: 15-20% of the Critical Set Point

Electrical Rating: .001 to 5 Amps Resistive at 28 VDC

