

<u>Passive Sensor Type</u>	<u>Sensor Resistance (Ohms)</u>	<u>RCX Reading (RAW)</u>
LEGO Touch Sensor	700 (closed) Infinity (open)	
Mercury Switch	Infinity (horizontal) Zero (tipped forward)	
Photocell (CdS)	65,000 (dark) 2,500 (room light)	
Bend Sensor	9,500 (no bending) 18,000 (bent 90 degrees)	
Lego Temp. Sensor	12,500 (room temp)	RAW value = °C = °F =

Useful formulas:

$$\text{RCX reading (in raw value)} = (1,023 \times R_{\text{sensor}}) / (10,000 + R_{\text{sensor}})$$

$$^{\circ}\text{C reading} = (785 - \text{raw value}) / 8$$

$$^{\circ}\text{F reading} = 32 + (9/5) \times (^{\circ}\text{C reading})$$