

OMEGAFILM® RTD Element For Fast Response!

Model 100W30

The 100W30 Platinum Resistance Temperature Detector has been developed to provide the typical high quality of platinum RTD sensors at lower cost. The 100W30 is equivalent in size to standard elements, and utilizes a thick film design for long term stability. Compared to standard 3 mm wire wound sensors, the second generation 100W30 has up to 4 times the response time, and is a direct replacement. The type 100 sensor is calibrated to DIN43760, BS1904 and IEC751 specifications, with an alpha coefficient of 0.00385. Nominal resistance is 100 ohms at 0°C. These sensors can be operated at temperatures up to 600°C (1200°F).



To Order, Specify:
100W30

\$22
each
Available
Off-The-Shelf

Discount Schedule	
1 to 10 unitsNet
11 to 24 units10%
25 to 100 units12%
101 to 500 units15%
501 to 1000 units17%

Specifications

Sensor Type: Thick film platinum RTD, alpha = 0.00385

Surface Insulation: 1000 MΩ at room temp. and 250 V, or 50 MΩ at 600°C (1110°F) and 50 V

Response Time: Less than 0.1 sec. to reach 63% of ultimate temperature in stirred water (BS 1904 test)

Self Heating Effect: Less than 0.006°C/mw, when immersed in stirred water at ice point

Stability after Temperature Cycling: Less than 0.05% after 10 cycles between -70 and 600°C (-95 and 1110°F)

Temperature Range: -70 to 600°C (-95 to 1110°F)

Fundamental Interval:

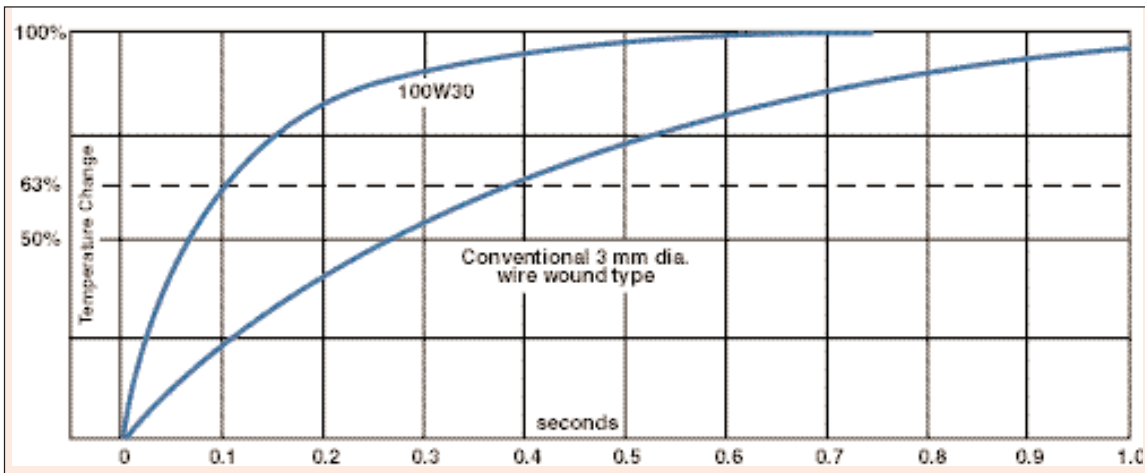
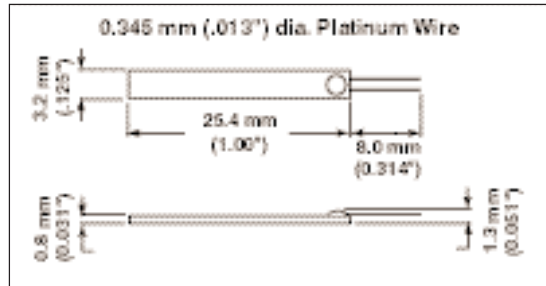
38.5 ohms nominal from 0 to 100°C (32 to 212°F)

Dimensions:

25.4 L x 3.2 W x 0.8 mm D (1.0 x 0.126 x 0.031") plus platinum lead wires

0.345 mm (0.0136") dia. x 8.0 mm (0.315") long

All RTD elements available with TAC-welded Teflon® insulated lead wires. Pricing is dependent on lead style. See page with "RTD Elements with Lead Wires Attached" (page C-12)





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