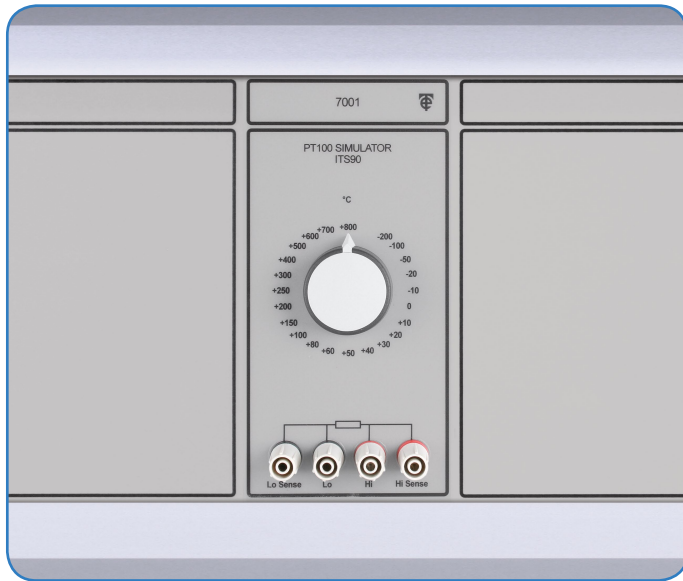




Time Electronics

7001 PT100 Simulator Module



- **-200°C to +800°C**
- **± 0.3°C accuracy**
- **Based on ITS 90 EN60751**
- **23 set points**
- **Exceeds class A**
- **Good temperature stability**
- **Passive resistance source**
- **°F version available**

DESCRIPTION

The 7001 is a precision simulator module for PT100 0.3850 platinum resistance elements used for accurate temperature measurement.

It follows the PT100 scale from -200°C to +800°C with 23 set points. High performance metal film resistors are used throughout which ensures a good temperature coefficient and long term stability.

The specification is in accordance with DIN EN 60751 (ITS 90). Offering high accuracy across the full operating range of PT100 devices it exceeds the performance of Class A & B. The 7001 will be of particular interest to those operating in the -60 to +60°C range where a performance exceeding Class A (e.g. better than +/- 0.15°C at 0°C), is required.

Since the 7001's output is a purely passive resistance it will operate with all types of PT100 measuring equipment including the live systems using pulsed, or interrupted excitation current.

SPECIFICATIONS

Set Points °C: -200, -100, -50, -20, -10, 0, 10, 20, 30, 40, 50, 60, 80, 100, 150, 200, 250, 300, 400, 500, 600, 700, 800.

Range	-200 to -100°C	-50 to +60°C	+80 to +200°C	+250 to +500°C	+600 to +800°C
Accuracy	± 0.3°C	± 0.15°C	± 0.3°C	± 0.5°C	± 0.65°C

Temperature Coefficient..... Less than 30ppm/°C
 Maximum Current 50mA
 Module Width..... 95mm (can be fitted in primary or secondary console)

ORDERING INFORMATION

7001 **PT100 Simulator Module (°C)**
 7001degF..... PT100 Simulator Module (°F version, see separate datasheet for details)
 C161 Factory Calibration Certificate (NPL)
 C114..... UKAS Calibration Certificate (17025)

Due to continuous development Time Electronics reserves the right to change specifications without prior notice.

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