

## **Description**

The 7085P is the benchtop version of the 7085A module. It is a temperature distribution unit that allows users to quickly create multi-channel measurement applications. It can switch 8 thermocouple inputs and 1 RTD reference to a common output. The instrument interfaces with EasyCal software and the 10 channel scanner in the multimeter section of the 7051+, 8060+ or 5065B modules. It supports multifunction measurements including resistance, AC/DC voltage and current, thermocouple and RTD. For temperature measurements the cold junction compensation is equipped to improve accuracy, and is shown via an LCD display on the front panel. The CJC is also read back and factored by EasyCal software via internal communication during applications.

The 7085P provides a convenient method of temperature UUT connection and calibration. To automate the process, EasyCal software controls the dry block calibrator (see TE range) and captures readback via the CalBench control centre (with integral multimeter) for automated testing. This method means that a typically time consuming temperature calibration application can be performed without relying on the user to manually step through the temperature ranges. The multiple input connections aid the workload further by allowing up to 8 thermocouples to be tested at one time. The 7085P is an excellent solution that saves both time and resources by automation and batch testing capabilities.

## **Specifications**

RequirementsInterfaces with 7051+, 8060+, AVM65 option & 5065B modules.  For automation EasyCal software is required on a control centre module or separate PC.
<b>Thermocouple input connections</b>
Reference RTD input connection
Reference thermocouple A reference thermocouple can be used by connecting to input #8 on the unit.
Interfaces
Maximum AC voltage

## **Features**

- Switches 8 thermocouple inputs & 1 RTD reference to a common output
- Records min/max ambient temperatures
- Cold junction temperature display
- Communicates with 7051+, 8060+, 5065B
- Clear visual display of temperature (LCD)
- Suitable for use with dry block calibrators
- Automatic calibration with EasyCal Software

Maximum DC voltage	110 V, 1 A switched, 30 VA (resistive load).
Actuation time	5 ms maximum on/off.
Contact potential	±500nV typical per contact, 1 μV max / <±500 nV typical per contact pair, 1 μV max.
Isolation between any two terminals>10 G $\Omega_{\mbox{\tiny 1}}$ < 75 pF.	
	calibrator can be driven by EasyCal software. orted: 8070, 8071, 8072, 8073, 7870, 7871, 7872, 7880, 7882.
Dimensions	L 265 x W 255 x H 175 mm

## **Ordering Information**

7085P......Benchtop Temperature Distribution and Scanner

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