

# Selector Switch 8 Way

- Eight Channel - Local and RS232 Control
- PRT and Thermocouple Models
- Use with Isotech TTIs and Automation Software

Isotech produces two eight way selector switches, one for resistance thermometers Model 954 and Model 958 for thermocouples.

These switches have been designed for use in conjunction with our TTI range. The switches allow easy selection of connected sensors. They can be operated from either the front panel switch or from an RS232 interface that is provided as standard. Channel status is indicated via front panel LEDs. The Selector switches can be located adjacent to the sensors being calibrated, giving more flexibility than a permanently connected or stacked system.

The PRT Switch has 4mm terminal posts that can accept bare wires or 4mm plugs. The thermocouple switch has eight miniature thermocouple connectors. These thermocouple connectors are thermally bonded to a platinum resistance thermometer that measures the temperature of the connector and hence the “cold junction”.

The TTI range temperature indicators feature the ability to measure a remote cold junction and this permits a mixture of thermocouple types to be connected through the box. The I-Cal software supports Switchbox models 954 and 958 and, for automatic operation, two boxes can be connected together with a “master / slave” lead allowing them to be controlled from a single RS232 port and up to 16 sensors to be switched.

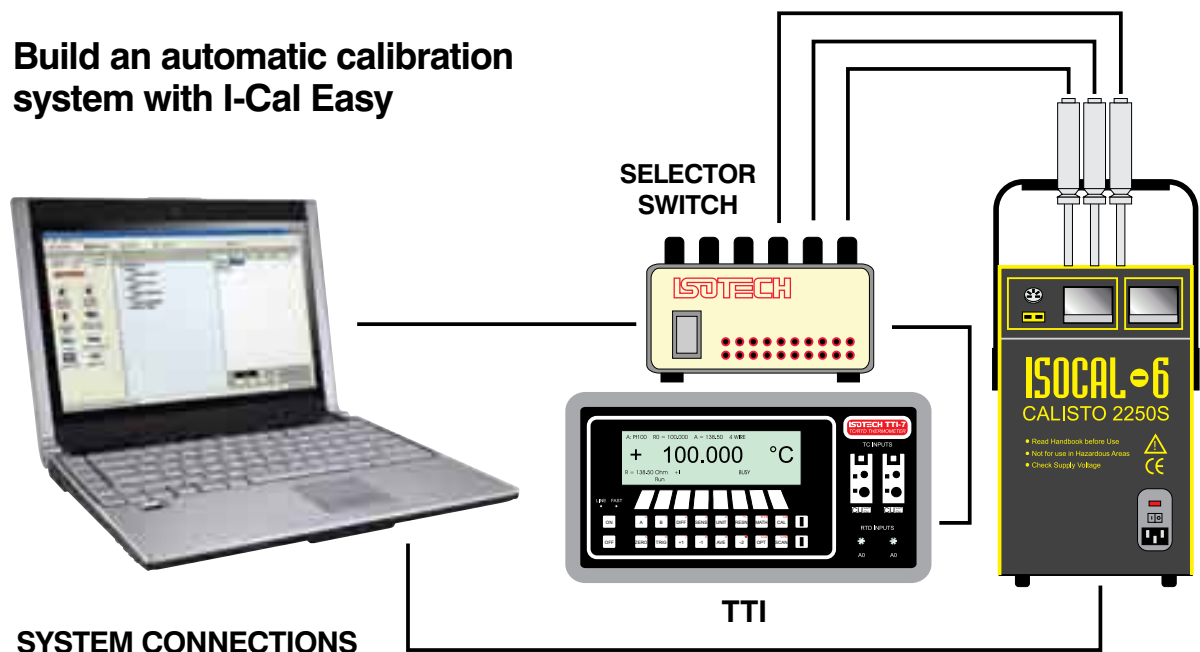
The software can automatically switch between the boxes and connect the appropriate output to the TTI. This 16 channel operation is not convenient without the software and manual operation of two boxes together is not recommended.

## Advantages

- Use with TTI-6 and TTI-7 PLUS easily switch up to eight sensors manually or with RS232.
- RTD and Thermocouple Models.
- Use with I-Cal Software for automatic switching and temperature calibration, add a second box (either type) to calibrate up to 16 sensors.
- Switches are stand-alone allowing them to be positioned anywhere in a laboratory for most efficient operation.



## Build an automatic calibration system with I-Cal Easy



SYSTEM CONNECTIONS

Model	954 RTD Selector Switch
Channels	Eight - four wire (four pole)
Control	Front panel switch And RS232
Connectors	4mm Terminal post
Internal Circuit Resistance	<250mΩ
Thermal EMF, typical	2μV after 1 minute of channel set 6μV after 30 minutes of channel set
Power	5 VDC 100-250 VAC, 50 / 60Hz Power Supply Included
Dimensions	Height 91mm Width 141mm Depth 165mm Weight 1kg

**How to Order**  
954 RTD Selector Switch

Model	958 TC Selector Switch
Channels	Eight - two wire (two pole)
Control	Front panel switch And RS232 (Also compatible with Isotech VLT system)
Connectors	Miniature Thermocouple Connectors
Internal Circuit Resistance	<250mΩ
Thermal EMF, typical	2μV after 1 minute of channel set 6μV after 30 minutes of channel set
Reference Junction Measuring Device	100Ω 1/10 Din Pt100

Thermal Coupling <0.2°C\*  
\*Basis of test. At ambient 20°C ±2°C the internal Pt100 agreed with the connected thermocouples to ±0.2°C (including all measurement errors) using IEC584-1995 and IEC751-1995. The uncertainty of this test was ±0.3°C which includes the reproducibility of the test thermocouples.

Power	5 VDC 100-250 VAC, 50 / 60Hz Power Supply Included
Dimensions	Height 64mm Width 141mm Depth 165mm Weight 1kg

**How to Order**  
958 TC Selector Switch