



Sciencetech 2302M Temperature Transducers Test Bench consists of an instrument panel and different type of temperature transducers that are useful for study of the principal and working of specialized dedicated temperature measuring setup. This system comprises of the latest components, which reflect the newest technological innovations in this field. Temperature transducer training platform assists students and industry professionals in understanding the concepts and workings of temperature measuring instruments. This further enables them to learn advance and more complex flow process; and contribute to the growth of the instrumentation area.

Sciencetech 2302M Temperature Transducers Test Bench includes different types of temperature sensors including bimetallic strip, RTD, thermocouple, thermistor, RTD/thermocouple temperature display and thermistor temperature display, heater, fan, switches and its indicator. Sciencetech 2302M allows the user to perform a wide range of experiments while learning intricate concepts in an interactive and simple manner.

Features

- Different type of temperature sensors like: Bimetallic strip, RTD, thermocouple, and thermistor.
- Separate heater and fan chamber with stand.
- On panel digital voltmeter, digital ammeter, RTD/thermocouple temperature display, NTC temperature display, toggle switch for heater and fan with indicator.
- Experiments configurable through patch board.
- Heavy duty Test bench.
- Castor wheel (with locking mechanism) is provided at legs of Test bench so that it can be easily moved.
- Enhanced electrical safety consideration.

Scope of Learning

- Temperature measurement using RTD and temperature display.
- Temperature measurement using K type thermocouple and temperature display.
- Temperature measurement using thermistor (NTC) and temperature display.
- Temperature measurement using Bimetallic thermometer.

Technical Specifications

RTD/Thermocouple temperature display	:	1 no.
Display	:	4 digit, 7 segment digital display
Keys	:	3 for digital setting
Input type	:	RTD (PT100) & thermocouple
Resolution	:	1 or 0.1 degree S
Thermistor temperature display	:	1 no.
Display	:	4 digit, 7 segment digital display
Keys	:	3 for digital setting
Input type	:	Thermistor
Resolution	:	1 or 0.1 degree S
RTD sensors	:	1 no.
Type	:	RTD (PT100)
Wire	:	3 wire
Temperature range	:	(-99 to 850°C)
Thermocouple sensors	:	1 no.
Type	:	K type
Wire	:	2 wire
Temperature range	:	-200 to 1250°C
Thermistor	:	1 no.
Temperature measuring range	:	-50 to 99°C.
Bimetallic thermometer	:	1 no.
Range	:	0 to 150°C
Digital voltmeter	:	1 no.
Digital ammeter	:	1 no.
Heater	:	1 no.
Power	:	1000W
Supply	:	230 V AC
Toggle switches	:	2 nos.
Indicator	:	2 nos.
Caster wheel	:	4 nos. (with lock), 2 (without lock)
Size	:	4"
Accessories	:	
• 4mm patch cord	:	8 nos.
• Mains cord	:	1 no.
• Heater and fan chamber with stand	:	1 no.