

Date d'édition : 05.02.2025

Ref : TK2942-001

**Kit d'étude des transducteurs: Electro-mécanique -
chaleur - lumière -**

**ne comprend pas les résistances, multimètres,
oscilloscope, Documentation en anglais**



The measurements package is an instrumentation module with signal conditioning circuitry and includes a wheatstone bridge, oscillator, operational amplifier, discriminator and power amplifier.

The electro-mechanical kit includes 6 linear displacement transducers, namely a linear variable resistor, variable inductor, variable area capacitor, linear variable differential transducer (LVDT), variable distance capacitor and a strain gauge.

The heat transducers kit includes 4 thermal devices and a heat bar assembly with temperature gradient. It includes a thermistor, platinum resistance, a bi-metallic strip and thermocouple.

The light transducers kit comprises a light source, photoconductive cell, photodiode and phototransistor.

A power supply, leads and theory and experiment manual with 28 comprehensive assignments completes transducers teaching kit.

Purchasing Options

TK2942-001 Transducers Kit, or

TK2942-1 Complete Transducers Kit (which includes TK2942-001 plus function generator, timer counter, oscilloscope, capacitance box, resistance box & digital multimeter)

Features

Bench-top study of transducers

Comprehensive manual includes theory, 28 practical assignments and industrial applications

Uses 14 industrial transducers

Includes a.c. & d.c. instrumentation schemes

Minimal set-up times ensure maximum experimentation time

Curriculum Coverage

Electro-mechanical transducers utilising variation in resistance

Wheatstone bridge

Amplifiers

Liquid depth & resistivity

Displacement

Strain

Electro-mechanical transducers utilising variation in capacitance

Wheatstone bridge

Variable area & distance

Use of an oscillator & discriminator in FM systems

Electro-mechanical transducers utilising variation in inductance

Electromagnetic inductance

Variable inductance transducer

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Mutual inductance transistor
Linear variable differential transformer
Transducer circuits
Light transducers
The nature of light
Photoconductive cell
Semiconductor photodiode
Phototransistor
Heat transducers
Heat distribution
Thermocouples
Thermistors
Resistance thermometers
Temperature control

Caractéristiques techniques :

Dimensions (net): Instrumentation module: width 295 mm x depth 220 mm x height 72 mm, power amplifier: width 107 mm x depth 107 mm x height 76 mm

Weight (net): Instrumentation module 1.0 kg, power amplifier 0.45 kg

En option:

The addition of the items below to the TK2942-001 forms the Complete Transducers Kit TK2942-1:

Function Generator
Timer Counter
Oscilloscope
Capacitance Box
Resistance Box
Digital Multimeter

SCOPE OF DELIVERY

1x 01-100 Power Supply +5 V =, +/- 15 V=FB
1x TK2941E Electro-mechanical Transducers KitFB
1x TK2941H Heat Transducers kitFB
1x TK2941L Light Transducers kitFB
1x TK2941M Measurements packageFB

Catégories / Arborescence

Techniques > Régulation > Etudes des capteurs