Date d'édition : 04.11.2026



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 conditioining circuitry and includes a wheatstone bridge, oscillator, operational amplifier, discriminator and power amplifer.
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 Tranducers 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 amplifer 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