

Date d'édition : 14.03.2025

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