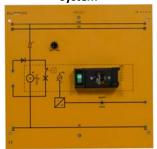


AUTOMATIC CONTROL TECHNOLOGY



Temperature control system



DL 2685

It represents a process for the control of the temperature, suitable for analysing continuous and discontinuous closed loop control systems.

A halogen lamp represents the heating element; a PTC sensor provides the feedback signal; a fan and a shutter valve allow, besides the reaching of a uniform temperature within given safety limits, also the insertion of noise

Technical features:

Power supply: +15 V; 0 V; -15 V Max. temperature: 100 °C

Temperature for the intervention of the bimetallic safety

switch: 90100 °C Feedback signal: 2 mA / 10 °C 1 V / 10 °C

Apparent dead time TU: about 10 s Compensation time TG: about 120 s

Light control system



It represents a process for the control of the light. In this module an incandescent lamp represents the optotransmitter element, while a phototransistor is the opt-receiver element. There are different possibilities for generating noise variables.

variable.

Technical features

Power supply: +15 V; 0 V; -15 V Signal voltage range: 0 ... 20 V Output signal: 0 10 V Maximum power: 10 W

Test function generator



DL 2687

It is a generator of functions such as: Dirac pulse, square wave and triangular wave selectable through selection switch. At some terminals the output signal has a fixed amplitude; at other terminals the amplitude can be continuously adjusted, from 0 V to 10 V, through a potentiometer. The frequency can be continuously adjusted, from 0.02 Hz to 10 Hz, through a potentiometer. For what concerns the square wave, it is possible to set the ratio between high signal and period, by choosing between 1/2 and 9/10.

Technical features

Power supply: +15 V; 0 V; -15 V

Output wave forms:

Dirac pulse function: 0 +10 VP

Triangular wave function: 0 \dots 20 VPP balanced with

respect to ground

Square wave function: 0 20 VPP with "high

signal/period" ratio = 1/2

Square wave function: 0 +10 VP with "high

signal/period" ratio = 9/10

Frequency of the output signal: 0.02 10 Hz Signal loff for resetting the integral controllers.