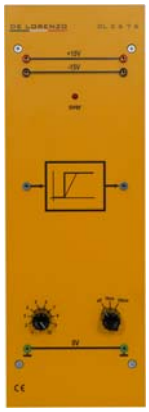
AUTOMATIC CONTROL TECHNOLOGY

Dead Time Element

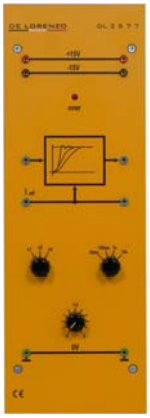


DL 2676

It allows the insertion of an adjustable real dead time in those processes which are characterized by it.

Technical features:
Power supply: +15 V ; 0 V ; -15 V
Signal voltage range: -10V, ..., +10V
Proportional coefficient of the module KS = 1
Dead time Tt = 10 ms .... 100 ms / 100 ms .... 1 s
Three position switch for coarse setting and exclusion of the dead time.
Potentiometer fine setting.
Led indicators of over-range.

Second Order Transfer Element



DL 2677

It allows analyzing the behaviour of an element with proportional transfer function able to oscillate, with a delay of the second order, both in the time domain and in the frequency domain.

Technical features
Power supply: +15 V ; 0 V ; -15 V
Signal voltage range: -10V, ..., +10V
Gain factor = 1
Time constant T = 10 ms .... 30 s, selectable through two rotary switches.
Damping coefficient d = 0 .... 3, with potentiometer setting.
Reset input for the restoration of the initial conditions.
Led indicators of over-range.

Manual/Automatic Switch

DL 2678

It allows to close the control loop, without oscillations, after a suitable setting of the system.
It is composed of a summing point to which the signal coming from a potentiometer (manual mode) and the signal coming from the controller (automatic mode), that can be inserted through switch, are connected.

Technical features
Power supply: +15 V ; 0 V ; -15 V
Signal voltage range: -10V, ..., +10V
Manual mode/Automatic mode switch
Manual mode potentiometer
Output summing point.