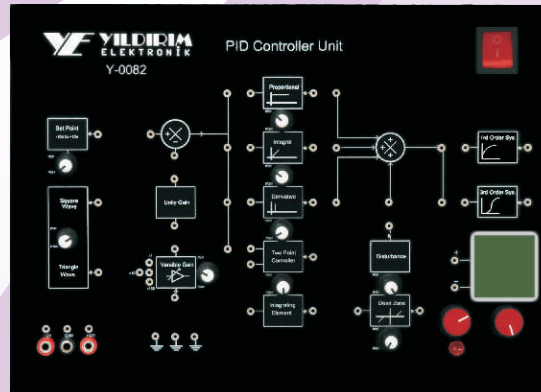


**Y-0082
PID TRAINING SET**



PID Training set is designed to provide skills in a basic idea and controllers and to teach the basic principles by applying different signals on PID. The working possibility in 2 modes with PID control is provided. These are; ON / OFF control mode and continuity mode.

P-control mode, I-control mode, D-control mode, PI-control mode, PD-control mode and PID control mode can be operated independently and can be used with different combinations in open and closed loop on the set. The difference between different modes of controllers can be observed clearly. The impact of PID training set can be seen on first instruction system and second instruction system in the open and closed loop system applied on the set.

The Square Wave and Triangle Wave generators, constant power supply and Audio generator are placed on the PID training set to help the experiments.

- Proportional, integral and differential functions can be controlled on the same board. (P, I, D, PI, PD, PID adjustable)
- ON/OFF controller
- Square and triangle wave with variable frequency for PID test
- Variable DC Power Supply for setting point
- Error detector
- First order system and third order system
- 3½ digit indicator for DC measurement
- Audio generator
- Test point for observation and signal measurement
- Dead zone and disturbances

TECHNICAL SPECIFICATIONS

Supply Voltage	220V AC / 50 - 60 Hz / ±10 %
DC Power Supply	Voltmeter with 3½ Digit LED Electronics protection
Variable DC reference Voltage - 1	- 6 V to +6 V
Variable DC reference Voltage - 2	- 10 V to +10 V
Function Generator	Outputs : Triangle, Square Amplitude : 0 – 8 Vpp Frequency: 0 – 156 Hz
Proportional band	5%...55%
Integrator	10m/sec...110 m/sc
Differential	1 msn...11 msn
ON / OFF Controller	ON : 10 V, OFF : (- 10 V)
Power Consumption	1,6 VA
Connection leads	2 mm sockets
Power cable / length	IEC / 2 meters
Size / weight	340 x 240 x 105mm - 1,35kg
Standard Configuration	Connection Cables, Power Cable, Experiment Book