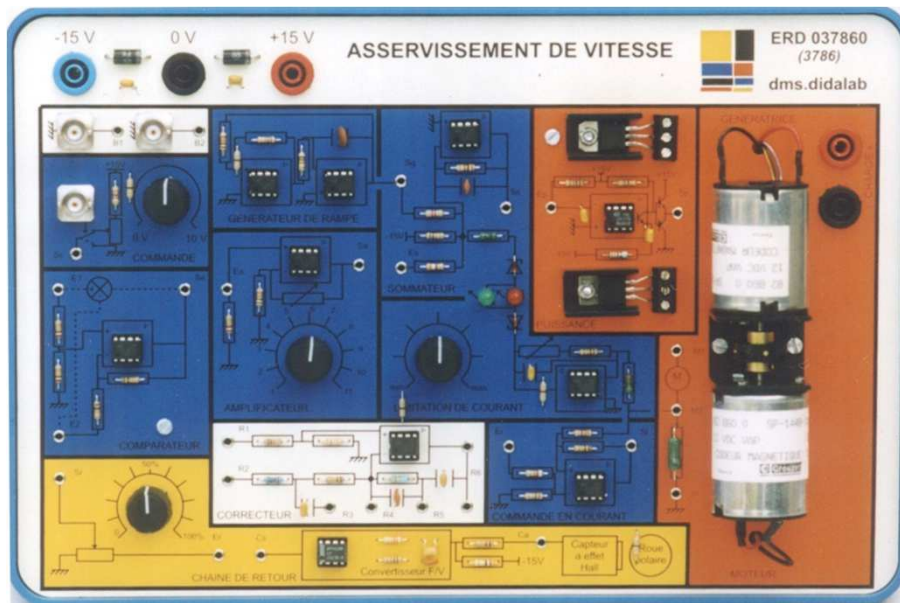
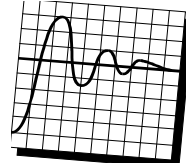


SERVO SYSTEMS



ERD 3786

ERD3786B PACKAGE: SPEED SERVO-SYSTEM TRAINER

ERD 037 860 : Speed servo-system module, description :

ROTATING MACHINES GROUP

1 DC motor 12 Vdc with 1 way 5 points position encoder associate to a DC generator charge, the two machines are coupled by a supple joint .

A study with current control is proposed.

CORRECTOR FONCTION

1 comparator, 1 variable gain amplifier , 1 summing, 1 current limiter, 1 saw-teeth generator.

1 current generator allow a current motor control.

1 industrial PID corrector allow to demonstrate the different actions of this corrector.

The return chain is assured by a frequency/voltage converter, associated with the incremental encoder.

The gain of the return chain is adjustable.

CONTROL SIGNAL

With an instruction generator potentiometer and 2 BNC/2mm adapters, it is possible to send the instruction signal from a low frequency generator and see the system behaviour on a oscilloscope .

The ERD 037 860 module is deliver with its experimentation manual.

ERD3786B, basic package «servo-system by PID corrector» including:		
Référence	Désignation	Qty
ERD037860	Servo-system module, PID corrector, DC motor, electric charge generator, user guide	1
ERD037782	Set of patching cords, different lengths and colors : 20 of Ø 2 mm, 5 of 4 mm (security leads)	1
	Optional Extra	
PMM062200	Common setting supply: +10 to +15 Vdc 4 A and -10 to -15 Vdc 2 A	
PMM022400	Low frequency generator 0,2 Hz to 2 MHz, sinus, square, triangle, offset setting	
EMD018010	Digital oscilloscope 2x100 MHz	
PEM010020	BNC cable, isolated M-M, 1-m long, black (3 suggested)	
PEM063960	BNC "T" (1 Male /2 female sockets)	