

Programmable Taco/Speed meter

Technical data:

Code : MC500
Model : AP-510 AP_520 AP_530
Supply : 220 v , 50 Hz , +/- 10%
Range : 0 ...9999
Amb. Temp.: -10...+50 C
Dimensions : 72x72 mm front panel mounting



Features:

- Dual function (Taco / speed)
- user programmable, Time base and slot number
- Shaft diameter resolution ,0.1mm.
- Speed in three different units.
- Automatic decimal point display for speed .

Details:

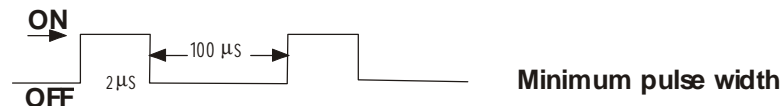
A : Front panel

- 1- Prg key This key is used to:
 - Enter programming mode (Prg key+ Set key)
- 2- Set key : This key is used to:
 - Enter programming mode (Prg key+ Set key).
 - Display and edit parameter values.
- 3-UP key : This key is used to :
 - Increase parameter value .
 - Choose the next parameter.
- 4-DN. key : This key is used to :
 - Decrease parameter value .
 - Choose the previous parameter.
- 5-LED-OUT1 : ON =Speedometer
OFF =Tachometer

B : Rare side (Input /Output)

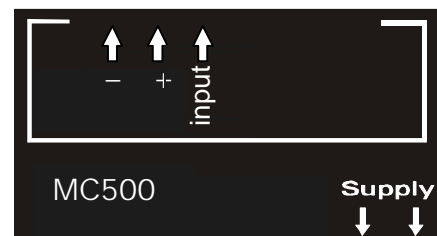
INPUTS:

- 1- Supply : Supply terminals (220 v , 50 Hz , +/- 10%)
- 2- Input 1 : Terminal for applying Input pulses.
(this terminal is active low i.e. every connection to the – terminal (high to low) will be counted as one pulse ,electronic circuitry should be used to produce clean pulse).



OUTPUTS:

- 1- + - (15...18 V D.C.,50 mA) to be used for sensors etc.



Operating Instructions :

This unit operates in two different modes Normal mode (Displaying process value.) Programming mode (Displaying parameters). Connect supply and input pulse wires ,apply power and the unit will start operating in normal mode

- To enter programming mode, while pressing “Prg” key press “set” key ,the unit will start in programming mode by displaying the first para.(“Func”) release the keys ,now you can view the para. value by pressing the “Set” key again and edit the value by UP/DN keys. Or use UP/DN keys to choose another parameter and view or edit it’s value. To return to normal mode while pressing “Prg” key press “set” key.If untouched the unit will return to normal mode after timeout.

Table 1 shows available parameters and corresponding possible values.

Parameter.	Possible value
Func	tACH -SPEd
Slot	1...60
ScAn	1...10
SH.dP	0.0 – 0.00
SH.di.	0.1...999.9 cm. 0.01...99.99 cm.
unit	m.SEc-m.min-k.Hr

Parameter description.

Func. : (function)Speed or Taco meter selection.
Slot : Enter the number of slots (pulses per rotation of the shaft)
ScAn : (scan time or time base)time in sec. For display update.
SH.dP. : Choose the resolution of the shaft diameter in cm.
SH.di. : Enter the shaft diameter in cm.
unit : select the unit of measurement.

Operating instructions.

To measure speed or revs per sec. A mechanism must be used to produce counting pulse and apply to “input 1” terminal.A photo electric switch with a slotted disc is designed and available by A.P.co. which can be used to connected to the shaft of the rotating unit to produce the required pulses .Atypical slotted disc is shown In Fig 1.

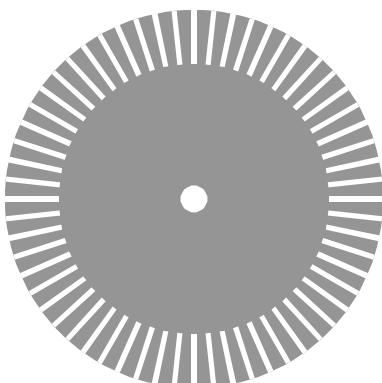


FIG. 1

Disc diameter	70 mm
Disk thickness	1mm
Slot length	7 mm
Slot width	1mm or bigger

Note :

Any other electronic circuit can be used to produce the pulses
Pulse specifications are .

OPTIONAL parameters

The following optional parameters are implemented on request.
(Do not hesitate to contact us for additional requests.)

ARMENIAN PAYAM

