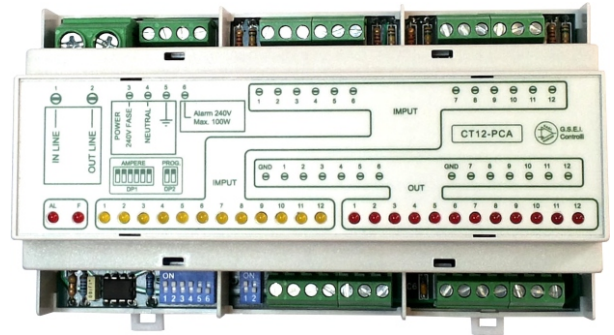


# CT12-PCAX Module for control of 12 zones resistive. with adaptation loads and power limit. Control of line with internal transducer 10KW 230V or external transducer X / 5.



Suitable device to control via solid state relays or electromechanical relay of the heat resistive loads for the control of ambient temperature and of surfaces. Controls the absorption level USER for ensure to remain within the power limits deliverable and use it in full when is available.



Setting the maximum level of energy is available and cycle times through DIP-switches, 12 inputs thermostats and 12 outputs for static or electromechanical relays.

## TECHNICAL FEATURES:

- CONTROL OF CURRENT BY USER WITH SETTING THE MAXIMUM POWER USED.
- ACTIVATION OF LOADS ON THE BASIS OF INPUT ENABLED WITH TWO CONTROL METHODS AND TWO TIMES CILCO. FIRST METHOD INTRODUCES LOADS RESPECTING THE POWER LIMIT SET EXECUTE ROTATION ENTERING A NEW LOADING AND REMOVING THE FIRST INSERTED WITH 30 SEC / 6 MIN CYCLES. THE SECOND METHOD IS IDENTICAL TO THE FIRST BUT WITH THE SEARCH OF LOADS MORE 'SMALL INSERTABLE IN CYCLE.

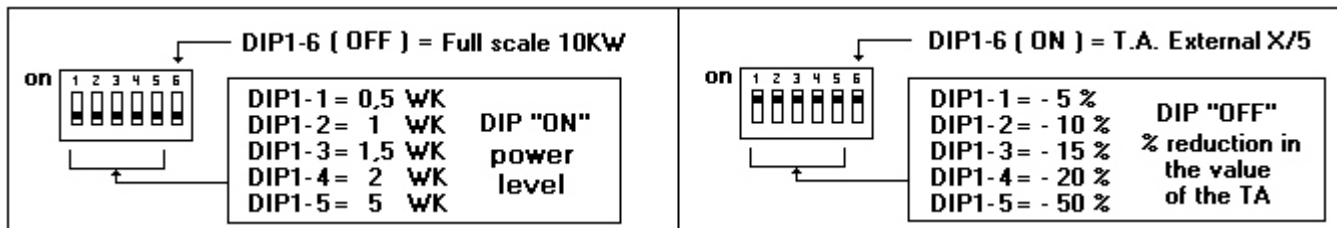
### A) SETTING OF THE POWER LEVEL THAT CAN BE USED WITH 10KW INTERNAL TRANSDUCER:

With the DIP1-6 (OFF) you can set the scale of 10KW. The maximum level of usable power is set using the remaining DIP1 with the following value: the value of dip1-1 is 0.5KW. , the value of 2 is 1KW, the value of 3 is 1,5KW, the value of 4 is 2KW, and the value of 5 is 5KW. They are engaged in such a way as to obtain a total value of power that goes from a minimum of 0.5KW to a maximum of 10KW.

### SETTING OF THE POWER LEVEL THAT CAN BE USED WITH THE USE OF EXTERNAL T.A X/5:

(Max. 4 mt. From the control unit with cable 2.5mm2).

With DIP1-6 (ON) you enable the connection of an external T.A.X/5 for the control equal or greater than 10KW. The T. A. should be connected to the terminals (IN LINE) and (OUT LINE). With the remaining DIP1 you can set the level reduction as a percentage of the current value of the T.A. used. If you set to "OFF" the dip1-1, you subtract 5%, with 2 you subtract 10%, with 3 you subtract 15%, with 4 you subtract 20%, with 5 you subtract 50%.



### C) TWO CONTROL METHODS:

#### Prog. 1) ENTERING WITH LOADS ROTATION DIP2-1 (OFF):

Starting with the first insert all possible loads enabled by thermostats taking account of the power limit. After this research the loads present will remain active for 30 sec. or 6 min. based on your choice. This cycle starts by entering the first next zone not yet been inserted removing the last in the queue previously inserted. This cycle is repeated in perpetuity to give a uniform distribution of energy.

The overall load is always measured and is adapted to the need of 'USER by updating again possible loads.

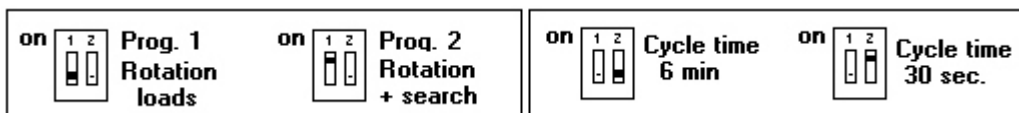
#### Prog. 2) INCLUSION OF LOADS WITH ROTATION + SEARCH LOADS POSSIBLE DIP2-1 (ON):

The device behaves as PROG.1 after have stopped at the last adaptation of the loads continues with the search for smaller loads insertable, those who do not exceed the user set value are being left active, the cycle starts again with time 30 sec or 6 min. based on your choice.

THE overall load and 'always measured and is adapted to the need of' USER by updating again possible loads.

### IMPORTANT NOTE:

If you use with the control unit of the zero-crossing solid state relays it is recommended to use the program 1 with 30 seconds to 6 min. cycle time. If you use with the control unit of the electromechanical relay must be use the program 2 with the 6 minute cycle times.



### UPDATE ZONE METHODS AND ALARM:

- Case 1: After expiry of the cycle time you will have an advancement of the next zone and deactivation of the last.
- Case 2: With the increase of the absorption value electrical user not more than + 25% of the set value due to loads not caused by the control unit (such as the insertion of electrical appliances), will be removed one or more loads of those in the queue activated first, so as to remain always inside the set limit.
- Case 3: With the overcoming of + 25% of the limit value electrical user set you will have instant deactivation (time Intervention 0.2 sec. ) Of all zones with reactivation of the possible successive zones with restart of the cycle. In this case and considering alarm is indicated by the "AL" led on the front and activated output (Term. 6) 230V AC for an auxiliary load max. 150W for use other signaling.