

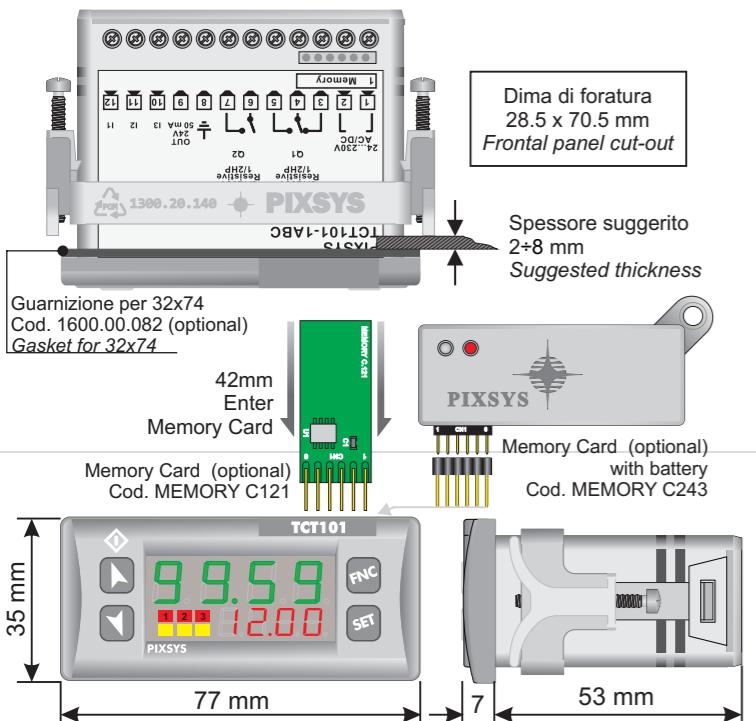


USER MANUAL TCT101-1ABC

PIXSYS www.pixsys.net
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Software V 2.00
2300.10.120-RevB 091109



DIMENSION and INSTALLATION



PRESS	EFFECT
1	Display SETPOINT 1 / 2
2	Modify selected SETPOINT
2a	Select the chosen digit
3a	Modify the flashing digit of the selected setpoint

TECHNICAL DATA

Operating 0-40°C, humidity 35..95uR% conditions

Sealing Front panel IP65 (with optional gasket), Box IP30, Terminal blocks IP20

Material Polycarbonate UL94V0 self-extinguishing

Digital inputs 3PNP/NPN selectable, also analogic for potentiometers

Outputs 2 relays 5A resistive

Back-UP Rechargeable battery, approx 7days autonomy

Programming Labsoftview 2.0 software

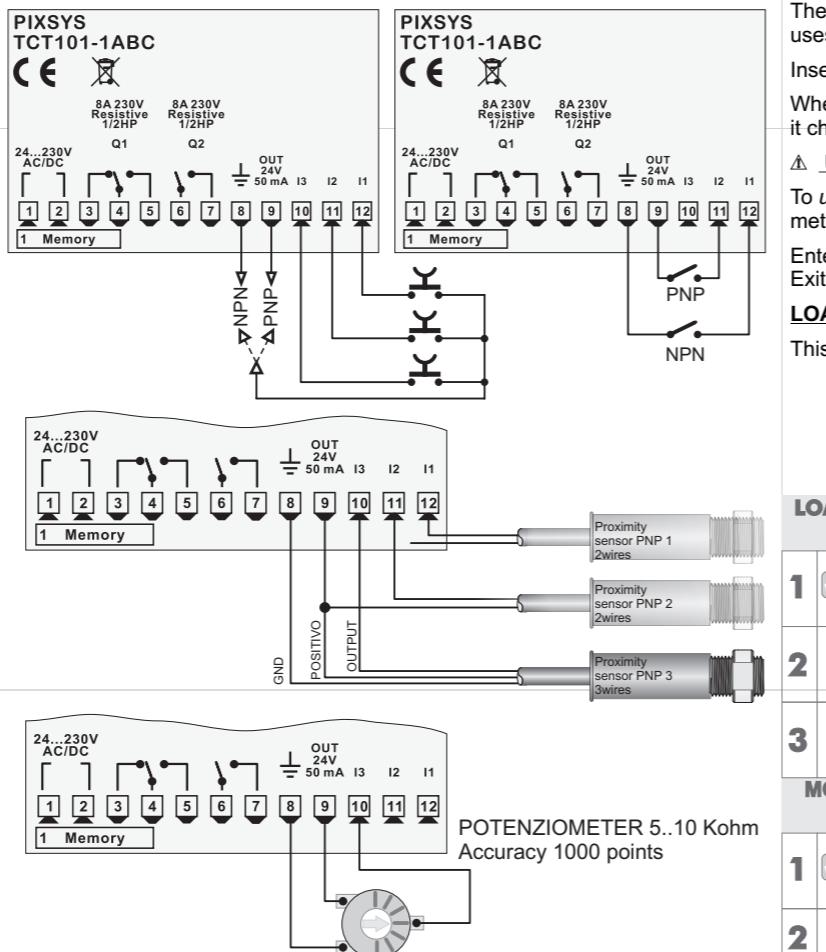
Power supply 24...230Vac/Vdc +/-15% 50/60Hz / 2W

INTRODUCTION

Thanks for choosing a Pixsys device.

Timer TCT101 can be set in 5 different modes: Timer-ON, Timer-OFF, Pause-Work, Oscillator, PWM (time-proportioned output), all options with independent setting of ON-OFF time. 3 digital inputs are available (NPN/PNP) for external commands like Start, Stop, Reset; one input is also analogic in order to allow the modification of working times by external potentiometer. 5 different time bases (hundredths, tenths, seconds, minutes, hours). Counting can be incremental or decremental.

WIRING DIAGRAM



Potentiometer:

To modify Set1 or Set2 by external potentiometer follow the steps below:

- 1-use potentiometers 5kOhm to 10kohm
- 2-connect cursor to pin 13; a wrong connection may damage the potentiometer and lead to lock of the device.
- 3-accuracy on input is max 1000 points, therefore set the parameters "Upper limit" and "Lower limit" with a max difference of 1000 units.
(Ex.: LoS1 to 50,0 and uPS1 to 150,0 to modify time value related to Set1 between 50 and 150 seconds with steps of one tenth). Greater differences would make unstable the less significant digit.

4-To calibrate the scale of potentiometer enter the configuration mode and select:

Hin.3 as Pot

Fin.3 as Set1 or Set2

P.tAr as Enable

Exit configuration mode and place potentiometer at minimum level and press key, then place potentiometer at max level and press premere key: the device automatically exit the calibration procedure.

N.B.: A switch-off of the device would interrupt the calibration.

MEMORY CARD (optional)

Parameters and setpoint values can be copied from one device to another using the Memory card.

There are two methods:

> **With the device connected to the power supply**
insert the memory card when the controller is off.

On activation display 1 shows and display 2 shows (Only if the values stored on Memory Card are correct).

By pressing the key display 2 shows .

Confirm using the key.

The device loads the new data and starts again.

> **With the controller disconnected from the power supply**

The memory card is equipped with an internal battery with uses.

Insert the memory card and press the programming button.

When writing the parameters, the LED turns red and on completing the procedure it changes to green. It is possible to repeat the procedure.

UPDATING MEMORY CARD.

To update the memory card values, follow the procedure described in the first method, setting display 2 to so as not to load the parameters on controller.

Enter configuration and change at least one parameter.

Exit configuration. Changes are saved automatically.

LOADING DEFAULT VALUES

This procedure restores the factory settings of the instrument.

LOADING DEFAULT SETTINGS

PRESS	EFFECT	OPERATION
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- 1 for 3 seconds Display 1 shows and 1st digit flashes, Display 2 shows .
- 2 Modify the flashing digit, press to reach the next digit Enter password .
- 3 to confirm The device loads default values (factory settings) Switch-off and restart the device

MODIFY PARAMETERS

PRESS	EFFECT	OPERATION
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- 1 for 3 seconds Display 1 shows and 1st digit flashes, display 2 shows .
- 2 or Modify flashing digit, press to reach the following digit Enter password .
- 3 to confirm Display shows first parameter of configuration table .
- 4 or Scroll the parameters.
- 5 + or Increase or decrease value on display by pressing and one of the arrow keys at same time Enter new data which will be stored releasing the keys.
- 6 End of configuration, the device exits programming mode.

LIST of PARAMETERS

FUNCTION CONFIGURATION

Func	P-01 Timer Function	Timer operating modes
	Timer On	Activate output at elapsing of counting
	Timer Off	Deactivate output at elapsing of counting
	Pause/Work	T1 and T2 start in sequence
	Oscillator	T1 and T2 start in sequence and cycling
	PWM	Activate a percentage of output on a fixed time base

BACKUP MEMORY CONFIGURATION

PoNc	P-02 Power-off Memory	Memory after switch-off
	Disable	Disabled
	Only Timer	Memory stores only value of Timer
	Timer / State	Memory stores value of Timer and START/STOP status

INPUT CONFIGURATION

H.in	P-03 Hardware Input 1	Configuration Input 1
	NPN	NPN
	PNP	PNP
	TTL	TTL

H.in	P-04 Hardware Input 2	Configuration Input 2
	NPN	NPN
	PNP	PNP
	TTL	TTL

H.in			P-05 Hardware Input 3 Configuration Input 3	Default
	PNP		PNP	
	TTL		TTL	
	Pot.		Potentiometer	
	Rising edge			
R.in			P-06 Active State Input 1 Activate Input 1	
	High Level	<input type="checkbox"/>	High level	
	Low Level	<input type="checkbox"/>	Low level	
	Rising edge	<input type="checkbox"/>	Rising edge	Default
R.in			P-07 Active State Input 2 Activate Input 2	
	High Level	<input type="checkbox"/>	High level	
	Low Level	<input type="checkbox"/>	Low level	
	Rising edge	<input type="checkbox"/>	Rising edge	Default
R.in			P-08 Active State Input 3 Activate Input 3	
	High Level	<input type="checkbox"/>	High level	
	Low Level	<input type="checkbox"/>	Low level	
	Rising edge	<input type="checkbox"/>	Rising edge	Default
F.in			P-09 Function Input 1 Function of Input 1	
	Disable		Disabled	
	Start / Stop		Start / Stop	Default
	Start / Stop-Reset		Start / Stop-Reset	
	Reset-Start / Stop		Reset-Start / Stop	
	Reset / Start / Stop		Reset / Start / Stop	
F.in			P-10 Function Input 2 Function Input 2	
	Disable		Disabled	
	Reset		Reset	Default
F.in			P-11 Function Input 3 Function Input 3	
	Disable		Disabled	
	Wait		Wait (stop the counting)	
	Hold		Hold (hold value on display but counting goes on)	Default
	Potent. To Set1		Modify SET1 by potentiometer	
	Potent. To Set2		Modify SET2 by potentiometer	
F.in			P-12 Function Key UP Function of	
	Disable		Disabled	
	Start / Stop			

TCT101-1ABC "TIMER"

