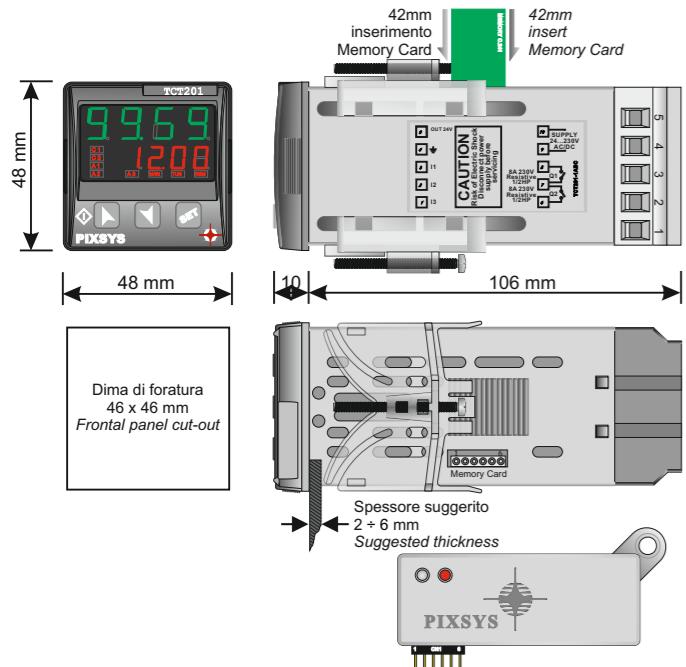




TCT201-2ABC USER MANUAL

PIXSYS www.pixsys.net
e-mail: sales@pixsys.net - support@pixsys.net
Software V 2.08
2300.10.138-RevG 240314

SIZE AND INSTALLATION



LED	MEANING
	Report the activation of Q1
	Report the activation of Q2
	Report serial transmission by the TCT201

SETPOINT MODIFICATION	PRESS	DISPLAY
	1	Visualizes SETPOINT 1 / 2
	2	Modify selected SET

TECHNICAL DATA

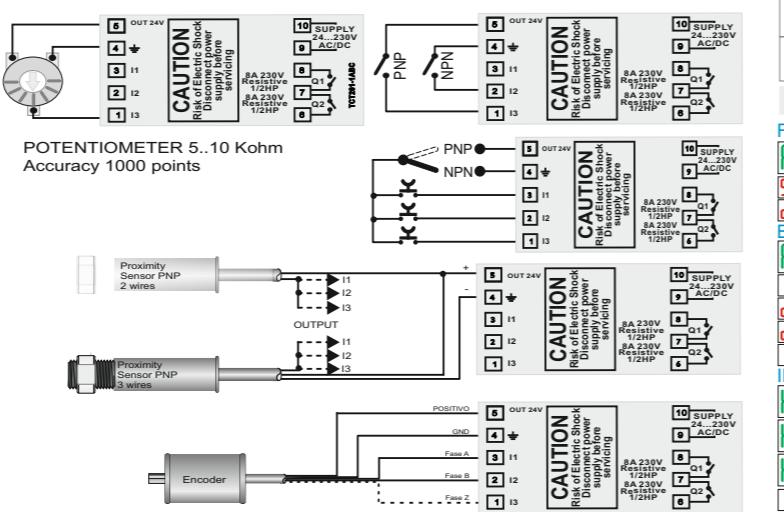
Operating temperature	Operating temperature 0-40°C, humidity 35..95uR%
Sealing	IP65 (with gasket) on front panel, Ip20 box and terminal bloks
Material	PC ABS UL94V0 self-extinguishing
Digital Inputs	3PNP/NPN configurable as analogue for potentiometers.(max 28 Vdc in PNP mode)
Outputs	2 relays 8A resistive charge
OUT 24V	30mA(24Vac),40mA(24 Vdc),60mA (110...230Vac)
Back-UP	Rechargeable battery, approx. 60days autonomy
Programming Software	Labsoftview 2.6 or later
Power Supply	24...230Vac/Vdc +/-15% 50/60Hz / 2W

INTRODUCTION

Thanks for choosing a Pixsys device. Counter TCT201 can be set in 2 different modes: Single or Double counter, all with independent setting. 3 universal digital inputs are availables (NPN/PNP/Potential free contact) and can be used for bidirectional encoders reading, or Up/Down count function, count inversion, Lock / Hold to lock or hold current visualization. One input is also analogue in order to allow setpoint modification by an external potentiometer.

! Read carefully the safety guidelines and programming instructions contained in this manual before using/connecting the device. Disconnect power supply before proceeding to hardware settings or electrical wirings. Only qualified personnel should be allowed to use the device and/or service it and in accordance to technical data and environmental conditions listed in this manual. Do not dispose electric tools together with household waste materials in observance of European Directive 2002/96/CE

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 I3; 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 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 car.

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 Mmeory 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 a life of about 1000 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

PRESS	DISPLAY	DO
1	SET for 3 seconds	Display 1 shows with 1°digit blinking, while Display 2 shows
2	Modifies blinking digit and pass to the next one pressing	Enter password
3	to confirm	Device loads default values
		Switch the device off and restart it

MODIFY CONFIGURATION PARAMETERS

PRESS	DISPLAY	DO
1	SET for 3 seconds	Display 1 shows with first digit blinking, while Display 2 shows
2	Modifies blinking digit and pass to the next one pressing	Enter password
3	to confirm	Display shows first parameter of configuration table
4		Scroll parameters
5 +		Increase or decrease visualized value pressing and an arrow key
6 +		Enter the new data that will be saved when releasing arrow key
		End configuration, controller exits from programming mode

PARAMETERS LIST

FUNCTION CONFIGURATION

	P-01 Counter Function	Counter functions
	P-02 Single (1 Counter)	1 counter functioning
	P-03 Double (2 Counters)	2 counters functioning

BACKUP MEMORY CONFIGURATION

	P-04 Power-off Memory	Power-off memory
	P-05 Counter 1	No counter stored at power-off
	P-06 Counter 2	Counter 1 stored at power-off
	P-07 ALL Counters	All counters stored at power-off

INPUT CONFIGURATION

	P-08 Hardware input 1	Input 1 hardware configuration
	P-09 Hardware input 2	Input 2 hardware configuration
	P-10 Hardware input 3	Input 3 hardware configuration
	P-11 NPN	NPN (not available on input 3)
	P-12 PNP	PNP
	P-13 TTL	TTL
	P-14 Potent.	Potentiometer (available only for input 3)

INPUT FILTER DELAY CONFIGURATION

	P-15 Filter Delay Input 1	Input 1 digital filter configuration
	P-16 Filter Delay Input 2	Input 2 digital filter configuration
	P-17 Filter Delay Input 3	Input 3 digital filter configuration

	P-18 No delay	Input filter disabled
	P-19 0,5 ms	Filter of 0,5 ms
	P-20 100,0 ms	Filter of 100,0 ms

COUNTER LOAD VALUE CONFIGURATION

	P-21 Counter Load Value 1	Counter 1 loading value
	P-22 Counter Load Value 2	Counter 2 loading value

COUNTER OUTPUT MODE CONFIGURATION

	P-23 Counter 1 Output Mode	Counter 1 output mode
	P-24 Counter 2 Output Mode	Counter 2 output mode

	P-25 Counter 1 Set	Output active if Counter ≥ Set
	P-26 Counter 1 Duration	Output active for "Output Duration" time if Counter ≥ Set
	P-27 Counter 1 Counts	Output active for "Output Duration" counts if Counter ≥ Set
	P-28 Counter 1 Set+2	Output active if Counter ≥ Set1+Set2
	P-29 Counter 2 Set	Output active if Counter ≤ Set
	P-30 Counter 2 Duration	Output active for "Output Duration" time if Counter ≤ Set
	P-31 Counter 2 Counts	Output active for "Output Duration" counts if Counter ≤ Set
	P-32 Counter 2 Set+2	Output active if Counter ≤ Set1+Set2

OUTPUT DURATION CONFIGURATION

	P-33 Output 1 Duration	Counter 1 output duration
	P-34 Output 2 Duration	Counter 2 output duration

	P-35 User Duration	Value modifiable by user

<tbl_r cells="3" ix="1" maxcspan="1" maxrspan="1

TCT201-2ABC "COUNTER"

