

COUNTY-S
REFERENCE MANUAL
software release 2.9x



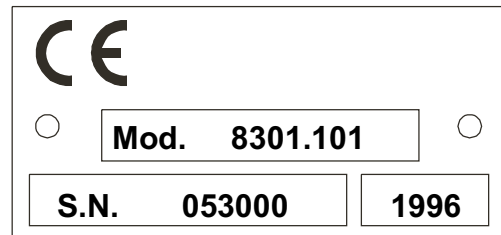
EC CONFORMITY

Units 8301.101 and 8301.103 conform to EC directives 89/336/EEC and 73/23/EEC, the following harmonized standards are in use EN 60204-1, EN 50081-1 e EN 50082-1.

A weighted sound pressure < 70dB (A)

A weighted sound power < 85dB (A)

Rear sign:



SAFETY INSTRUCTIONS

Attach first the power cord to the counter and then into an appropriate AC outlet.

The counter shall be connected to an electrical system having ground connection..

ATTENTION: the rotating parts of the unit can be dangerous if should come in contact with wear loose clothing, jewellery or long hair. Wear protective hair covering to contain long hair.

WARRANTY

This unit is guaranteed against all defects due to faulty materials and workmanship, within 12 months from the date of purchase.

A use not conforming to what specified might be dangerous to the safety of the operator and may damage the unit.

In such circumstances the manufacturer is relieved of any liability and the warranty itself will decay.

REPAIR

Repairs have not been attempted by anyone other than authorized repair distributors.

Do not try to repair the unit by yourself.

ATTENTION: Dangerous voltage is present inside the unit.

Protecting the environment



Separate collection. This product must not be disposed of with normal household waste.

Should you find one day that your product needs replacement, or if it is of no further use to you, do not dispose of it with household waste. Make this product available for separate collection.

Separate collection of used products and packaging allows materials to be recycled and used again.



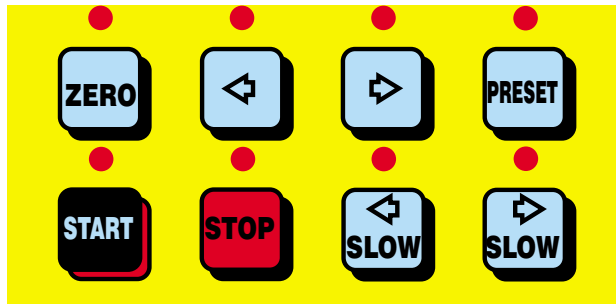
Re-use of recycled materials helps prevent environmental pollution and reduces the demand for raw materials.

Local regulations may provide for separate collection of electrical products from the household, at municipal waste sites or by the retailer when you purchase a new product.

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1.1 CONTROL KEYBOARD - MOTOR CONTROL SECTION



L1 ○ = ZERO point led
 ON = totalizer counting mode
 BLINKING = standby

L2 ○ = LEFT COUNTING DIRECTION
 ON = the components are counted moving left

L3 ○ = RIGHT COUNTING DIRECTION
 ON = the components are counted moving right

L4 ○ = PRESET LED ON = preset mode count
 (decrementing)

L5 ○ = MOTOR ON motor in motion according to set speed

L6 ○ = not used

L7 ○ = LEFT SLOW MOTION LED ON = motor in slow motion moving left

L8 ○ = RIGHT SLOW MOTION LED ON = motor in slow motion moving right

ZERO = ZERO START POSITION CONFIRMATION (TOTALIZER)
 press when the first component to be counted is in correspondence to the reference led on the counting head.



= LEFT COUNTING DIRECTION
 press when counting left is required



= RIGHT COUNTING DIRECTION
 press when counting right is required

PRESET = PRESET START POSITION CONFIRMATION (PRESET MODE)
 press when the first component to be counted is in line with the reference led on the counting head

START = MOTION ENABLE press to start motion.

STOP = MOTION DISABLE press to stop motion.

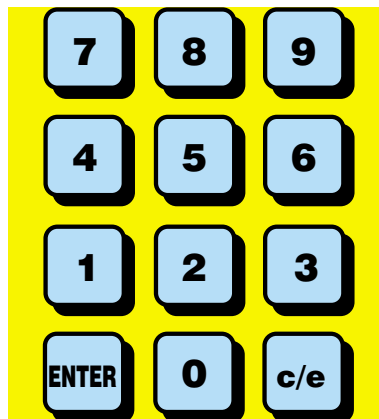


= LEFT SLOW MOTION
left single step key (one component at a time), when pressed momentarily, or slow motion left if pressed for one second or more.



= RIGHT SLOW MOTION
right single step key (one component at a time), when pressed momentarily, or slow motion right if pressed for one second or more.

1.2 CONTROL KEYBOARD - DATA ENTRY SECTION

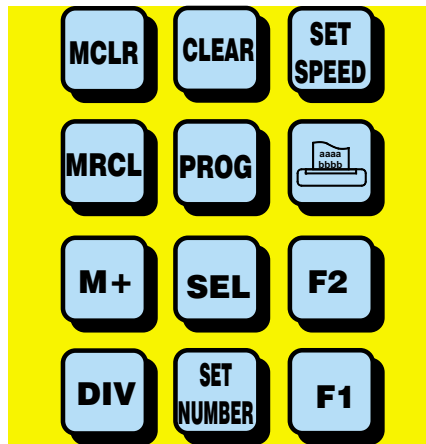


0 ÷ 9 = DATA ENTRY KEYS

ENTER = CONFIRMATION KEY
press to confirm a data entry or to confirm a special function execution (memory operation MCLR,MRCL,M+)

c/e = CLEAR ENTRY
press to cancel an incorrect data entry or to escape from a special function (MCLR, MRCL, M+, DIV, PRESET, SPEED)


1.3 CONTROL KEYBOARD - SPECIAL FUNCTION SECTION



- SET SPEED** = SPEED SETTING
 press when a new speed value is required

- F1** = SERIAL DATA TRANSMISSION
 pressed to send the counting data to an external computer connected through the serial line.

- F2** = not used in this model.

-  = Termal label printing.

- PROG** = PROGRAM KEY
 pressed to enter into the programming mode.

- SEL** = PARAMETER SELECT
 Pressed to select the parameter .

- CLEAR** = GENERAL RESET
 clear all functions ,and sets the counter in a totalizer mode.

- SET NUMBER** = PRESET SETTING
 pressed to check actual preset value or to change current preset value.

- MCLR** = CLEAR MEMORY reset storage memory

- MRCL** = RECALL MEMORY
 recall storage memory

- M+** = ADD TO MEMORY
 add actual counter value to the storage memory

- DIV** = DIVIDER SETTING
 pressed to change the divider value (holes for different sized components)

2.1 UNPACKING

Open the carton and check to see all the following items are there :

- 1)COUNTY-S component counter corresponding to the model printed on the outside of the packing carton.
- 2)Power cord.
- 3)User's manual.(this manual)

WARNING:

As you unpack the County, set aside and save the packing materials.They will come in handy in case you need to transport it or send it back to recalibration.

2.2 LOCATING YOUR COUNTY-S

Choose the location for the County-S , using the following guidelines:

Choose a flat surface , with enough space for component handling
Avoid direct sunlight (display will be more readable)

Use the counter within the following ranges :

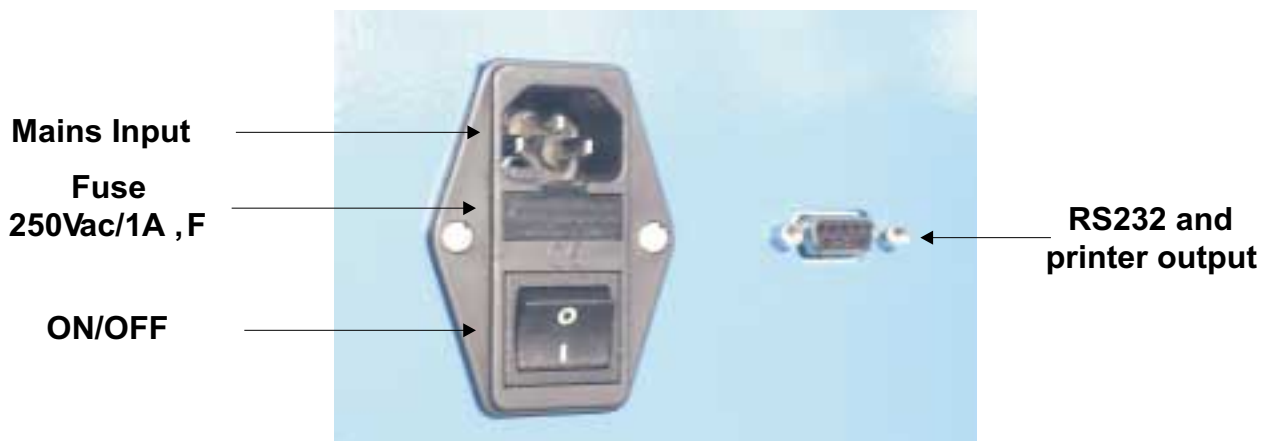
Ambient temperature: 0°C to 40°C

Relative humidity: 10% to 80% (non-condensation)

2.3 POWER SUPPLY

Attach first the power cord to the counter and then into an appropriate AC outlet.

REAR CONNECTIONS



3

OPERATIVE INSTRUCTIONS

3.1 PRELIMINARY OPERATIONS



Light on the ON/OFF switch located at the back of the machines at power cord. Select the number of holes for component size:

 "number of holes for component size (1 to 99)" 

NOTE: for **2 components per hole** enter "0", the DIV display will show "-2" and the counting will be multiplied by 2.



3.2 TOTALIZER MODE COUNTING

Push "**CLEAR**"

Select counting direction, left or right  or 

Insert the tape and hook it to the central dragging wheel.

Adjust the guiding rail height



Push manually or by means of low speed keys ( or ) the tape into the counting head till the first component reaches the lighted reference led on the counting head.

Push "**ZERO**" to confirm counting start point. "**L1**" lights up and at the same time on the counting head the counting reference led lights up too.

Hook the tape into the rewinding wheel starting and stopping the motor ("**START**", "**STOP**" keys).

Push "**START**" and wait for components counting to end.

At the end of the tape the motor stops automatically.



Move the tape until the last component is reached using  or  keys or manually.

SLOW keys are single step keys (one component at a time) when pressed momentarily, or slow motion movement if pressed for one second or more.

Press "**ENTER**" when counting is finished, the component number will be momentarily fixed on the display, and the machine is ready to rewind the tape.



3.2 PRESET MODE COUNTING

Press "**CLEAR**".


Select counting direction, left or right  or 

Insert the tape and hook it to the central dragging wheel

Adjust the guiding rail height

Push manually or by means of low speed keys ( or ) the tape into the counting head till the first component reaches the lighted reference led on the counting head.

Set the desired component number :

- 1)press  key on the special function keyboard located on the right side of the machine
- 2)enter the component number (from 1 to 99999) on the data keyboard located on the left side of the machine.
- 3)press “**ENTER**” to confirm or “**c/e**” to cancel the entry.

Press “**PRESET**” key, located on the motor control section under the display, to confirm start counting number.

“**L4**” lights up and the display shows the components number to be counted. Hook the tape into the rewinding wheel starting and stopping the motor (“**START**”, “**STOP**” keys)

Push “**START**” and wait for the components counting to end.

The motor stops automatically when the set components number is reached.

Press: “**ENTER**” when counting is finished.

In case of tape ending before the preset number of components , the motor stops and the counter changes the counting mode into totalizer .



This enables the operator to reach the last component in the tape and to know the number of the remaining components .

3.4 MOTOR CONTROL

Start or stop the motor running with “**START**” and “**STOP**” keys .
If the motor speed is incorrect select another speed by pressing :

 "speed value(from 0 to 7)" 

For more precise movements at the beginning or at the end of counting

operations  or  can be used.

SLOW keys are single step keys (one component at a time) when pressed momentarily, or slow motion movement if pressed for one second or more.

3.5 DATA ENTRY

PRESET number:

 "component number(from 1 to 99999)" 

To clear an incorrect entry press “**c/e**”.

DIVIDER :

DIV "number of holes per component (from 1 to 99)" **ENTER**

NOTE: for **2 components per hole** enter "0", the DIV display will show "-2" and the counting will be multiplied by 2.

SPEED :

SET SPEED "speed value(from 0 to 7)" **ENTER**

3.6 SPECIAL FUNCTIONS

CLEAR restart counting functions.

MCLR clear memory
 press "**MCLR**", display will show "CLEAR"
 press "**ENTER**" to confirm
 press "**c/e**" to escape

MRCL recall memory
 press "**MRCL**", display will show "RECALL"
 press "**ENTER**" to confirm
 press "**c/e**" to escape

M+ add to memory
 press "**M+**", display will show "ADD"
 press "**ENTER**" to confirm
 press "**c/e**" to escape

3.7 PROGRAMMING

In order to program the serial output parameters execute the following steps:

Press "**PROG**", the display will show the first parameter to program .

Press "**SEL**" to select the desired parameter.

Press "**ENTER**" to display the previous memorized data.

Enter the new value on the data keyboard.

Press "**ENTER**" to confirm or "**c/e**" to cancel the last entry.

Repeat this sequence for all the parameters to program then press "**CLEAR**" to exit from the routine.

The parameters to program are :

COUNTRYy Language of the words in the label:
0=USA, 1=ENG, 2=ITA, 3=FRA, 4=GER, 5=SPA

YEAR year
MONTHh month
DAY day of the month
HOURs hour
MINUtes minutes

BARCODEe Bar Code setting
0 = OFF (Bar Code is not printed)
2 = CODE 39 T, where "T" means that only the total number of pieces will be printed
3 = CODE 39 DT, where "DT" means that the BarCode will be printed on 2 lines, one for the date and one for the total quantity.
4 = ITF (interleaved 2 of 5)
6 = CODE 128 A (code 128 character subset A))

LABEL **0 = ON**, the alphanumeric section of the label will be printed
1 = OFF, only BarCode will be printed.

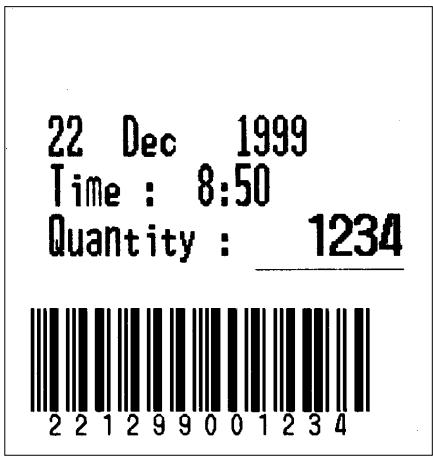
PERIPH peripheral number
Used when two or more COUNTY-S are connected in a SERIAL-LINK to a single computer.
(ATTENTION : the current transmission protocol does not support this function, so the peripheral number does not care.)

BAUD transmission baud rate.
The valid values are : 9600(default) - 4800 - 2400 - 1200 - 600 - 300 - 150 - 110
Note: in order to make the RS232 settings active , switch-off and then turn-on the County-s.

3.8 MAINTENANCE

No type of maintenance is required .

4 THERMAL LABEL PRINTER

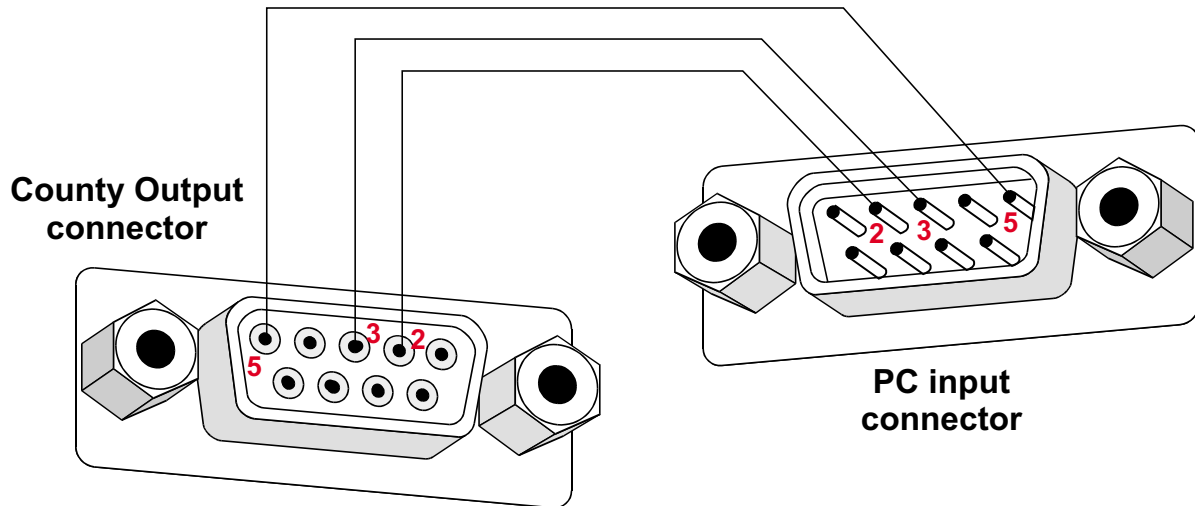


Sample of a printed label , Bar Code included.

NOTE: fit together the printer and the counter with the data cable included and with the power supply off.

4.1 LABEL PRINTING

Press the  key.

5.1 CONNECTION DIAGRAM AND TRANSMISSION PROTOCOL**TRANSMISSION PROTOCOL :**

When the F1 key is pressed the COUNTY-S transmits an ASCII bytes sequence with the following significance :

1	START	01H	(SOH)
2)	digit 6 (most significant digit)		
3)	digit 5		
4)	digit 4		
5)	digit 3		
6)	digit 2		
7)	digit 1 (units , less significant digit)		
8)	STOP	04H	(EOT)

Transmission baud rate is the one set into the programming routine.

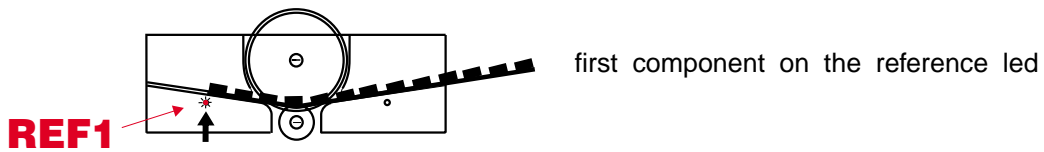
Valid baud rate are : 9600(default) - 4800 - 2400 - 1200 - 600 - 300 - 150 - 110

TOTALIZER COUNTING EXAMPLE

SEQUENCE



left counting direction



zero confirmation

NOTE: after zero confirmation there is a change from REF1 to REF2

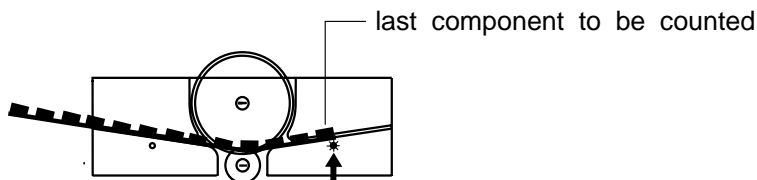


component counting



NOTE: if no tape is inserted the motor stops and the display shows 16 number of tape holes from REF1 to REF2

NOTE: 16 holes from REF1 to REF2



the components are 234

PRESET MODE COUNTING EXAMPLE

SEQUENCE
↓

CLEAR

0

←

left counting direction

PRESET

P 0

last memorized preset value

(special function keyboard)

2

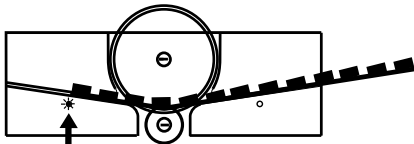
0

0

200

ENTER

new preset value



first component on the reference led

PRESET

P 200

number of components to be counted

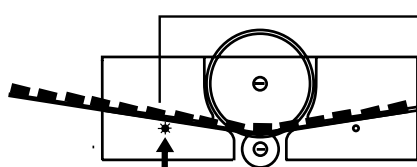
counting start point confirmation (motor control keyboard)

START

1

component counting (increasing)

200



component n.200

automatic stop at component n.200

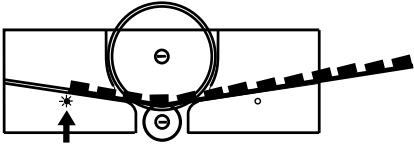
ENTER

200

file : COSMDI4

PRESET MODE AT TAPE END

SEQUENCE
↓



first component on the reference led

PRESET **P 200**

number of components to be counted

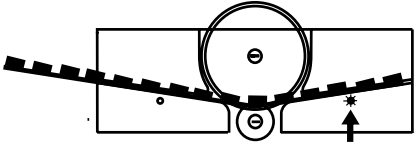
counting start point confirmation (motor control keyboard)

START **1**

component counting (increasing)

.....

152

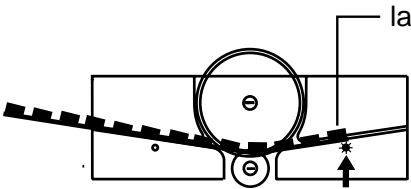


automatic stop at tape end

159

number of components at the reference after motor stop

SLOW **SLOW**



last component to be counted

ENTER **161**

the components are 161