

525 Series

Electronic Totalizer and Frequency meter

1. Description

- 6digit adding counter and frequency meter, resetable
- LED-Display with 8 mm high characters and very high luminosity
- Display range 0..999999 with leading zero blanking.
- Programming of count functions and operating parameters via the setting keys. During programming the display guides the user with text prompts.
- Supply voltage 10..30 VDC
- Programmable features:

Input polarity (npn or pnp)

Max. count frequency (30 Hz or 10 kHz)

Scaling factor (totalizer)

Decimal point (totalizer)

Reset mode (totalizer):

electrical

manual

manual and electrical

no reset

Scaling factor (frequency meter)

Decimal point (frequency meter)

Display mode (frequency meter)

1/min 1/sec

Time to wait until "0" is displayed

2. Inputs

INP

Dynamic count input. Max. count frequency 30 Hz or 10 kHz programmable via set up

RESET

Dynamic reset input. Linked to the red reset key.

3. Setting of the parameters

3.1 Selecting the displayed value

By pressing the right key, it can be chosen whether the current value of the totalizer or the frequency meter is displayed.

Pressing the right key once the current function ("total" or "tacho") is displayed for 2 seconds. If within this period the right key is pressed again, the current function is changed. The display shows the new current function for a short time.

3. 2 Setting the operating parameters

- Hold down both keys on front panel and switch on the supply voltage.
- b. The display shows
- After releasing the keys the display alternates

Prob

between menu title and corresponding menu item at a frequency of 0.5 Hz. After any key is pressed, only

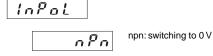
- the menu item is displayed.
- d. Pressing the right key, the menu item will be switched to next value.
- e. Hold down the left key and press the right key to enter and switch to the next menu title.
- f. After programming the last menu item, the programming routine will be left and the new values will be stored by switching the menu item to "YES". If you chose "NO", the programming routine will be passed through once again.

4. Programming routine

Following all programmable parameters are shown in succession. After one pass, the device is fully programmed.

In each case the first shown item is the factory preset.

4.1 Input polarity



4.2 Activating the 30 Hz filter

FiltEr

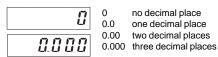


4.3 Scaling factor totalizer (Multiplier)

Factor can be set from 00.0001 up to 99.9999. The decimal point is fixed "0" won't be accepted!

4.4 Decimal point totalizer (Display only)

The decimal point indicates the number of decimal places.



4.5 Reset mode



P7RnEL

manual reset (red key) and electrical reset

no r E S

no reset (red key and reset input locked)

EL ~ E5

electrical reset only

778nrE

manual reset only

4.6 Scaling factor frequency meter (Multiplier)



Factor can be set from 00.0001 up to 99.9999. The factor decimal point is fixed. "0" won't be accepted!

00.0001 999999

Factor = 1÷ number of pulses per whole unit. Increase decimal place under dP.ERch to add resolution.

4.7 Decimal point frequency meter (Adds resolution)

d P.E R c h

The decimal point indicates the number of decimal places.



0 no decimal place
0.0 one decimal place
0.00 two decimal places
0.000 three decimal places

4.8 Display mode frequency meter



5Ec - 1

Calculating and displaying the value to 1/sec

177770-1

Calculating and displaying the value to 1/min

4.9 Max. time to wait until "0" is displayed

This parameter indicates, how long it takes at active measuring, until "0" is displayed

max. time to wait 01.1 s (min. value)

99.9

max. time to wait 99.9 s

4.10 End of programming



no

Programming routine will be passed through once again. All parameters can be checked.



Programming routine will be left and the new parameters will be stored. Afterwards the device is ready to use.

5. Connections

- 1 10-30 VDC
- 2 0 V (GND)
- 3 INP
- 4 ---
- 5 RESET

1	2	3	4	5

6. Technical data

Supply voltage:

10...30 VDC

Max. current consumption:

50 mA

Display:

6digit LED-Display, 8 mm high characters

Polarity of input signals:

programmable for both common inputs (npn or pnp)

Input resistance: appr. 10 kohm

Count frequency: 10 kHz can be damped to 30 Hz

Min. pulse length of the control inputs: 5 ms

Input sensitivity: Low: 0 to 1 VDC

High: 4 to 30 VDC

Pulse shape: variable (Schmitt Trigger characteristic)

Data retention:

via EEPROM 1x106 memory cycles or 10 years

Noise immunity:

EN 50081-2; EN 55011 class B; EN 50082-2

Ambient temperature: +14°F...+122°F (-10 °C...+50 °C)

Storage temperature: -13°F...+158°F (-25 °C...+70 °C)

Weight: appr. 1.76 oz.(50 g)
Protection: IP 65 (front)

Cleaning:

The front of the unit is only to be cleaned with a soft wet (water!) cloth.

7. Dimensions:

W = 1.88" (48mm) H = .944" (24mm) D = 2.32" (59mm)

8. Cutout:

W = 1.78" (45.2mm) H = .876" (22.3mm)

With adaptor: W = 1.97" (50mm) H = 0.99" (25mm)



Trumeter Company Inc.,1020 North West 6 Street, Deefield Beach Florida 33442, U.S.A.

Tel: (1) 954 725 6699 Fax: (1) 954 725 5599

email: sales.usa@trumeter.com

www.trumeter.com