

KS101.10



12-bit potentiometer viewer with thresholds



Instrument with 12 bit A/D converter used for measuring potentiometric inputs.

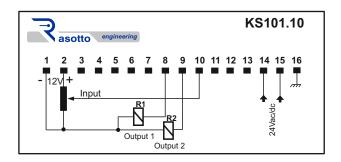
The tool offers the following functions:

- 6-digit displaying
- setting any reading with any input value
- potentiometer calibration from 2 to 6 points
- readings refresh rate configuration
- decimal point setting up to 5 points
- negative values selection
- averages number selection for more stable readings
- data protection with password
- relay outputs activation when the relative thresholds are exceeded

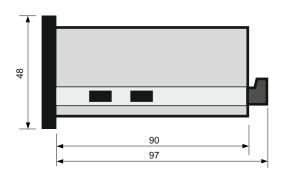
Technical features

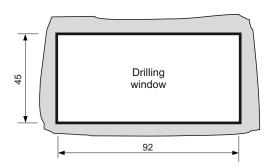
Power supply	24Vac/dc +/- 5%
Absorption	24Vdc 150mA
Display	6 digits H= 13mm
Full scale max value	9999
Resolution	+/- 1 digit on 4096 f.s.
A/D conversion	12 Bit = 4096 points
Full scale value	-999 ÷ 9999
Zero scale value	-999 ÷ 9999
Delay between 2 readings	0 ÷ 50
Negative values block	0 - 1
Operation conditions	0 +55°C / 2090% R.U. without condensation
Storage conditions	-25 +80°C / 2090% R.U. without condensation
Mounting	recessed mounting
Container	ABS 48 x 97 x 90mm
Protection degree	IP30

Electrical connections



Dimensions











Sede legale: via dell'Artigianato 3 - 36034 - Malo (VI) - Italy Tel. ± 390445637541

E-mail: info@dsstech.it

WEB site: www.dsstechautomation.com P.I., C.F., N. Reg. Imprese IT04118980244 Capitale sociale: 10.000,00 Euro i.v.



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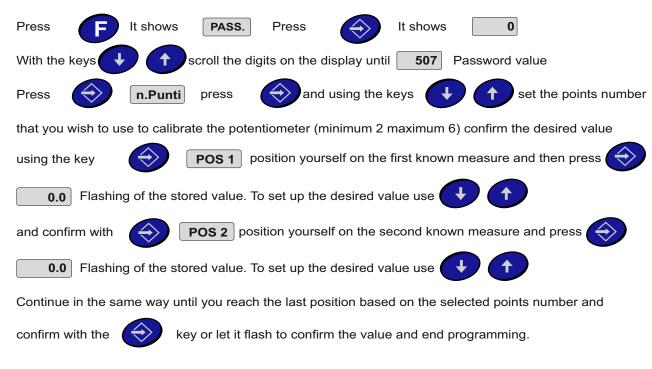


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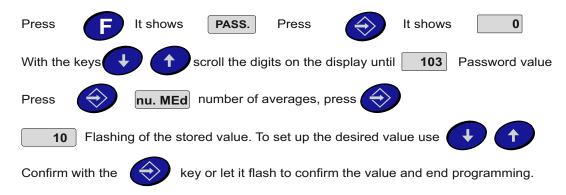
OPERATION CYCLE

All'accensione, dopo la visualizzazione del nome prodotto e della versione firmware, lo strumento visualizza il valore dell'ingresso analogico dato dalla posizione del potenziometro in base ai dati impostati in fase di programmazione. Le uscite vengono abilitate al superamento delle relative soglie.

CALIBRATION MENU



READINGS AVERAGE VALUES CALIBRATION MENU



PARAMETERS DESCRIPTION

Technical parameters displayed during programming.

- 1) **POS 1** = Known position 1. Position the potentiometer in the first known position.
- 2) POS 2 = Known position 2. Position the potentiometer in the second known position.
- 3) **POS 3** = Known position 3. Position the potentiometer in the third known position.
- 4) POS 4 = Known position 4. Position the potentiometer in the fourth known position.
- 5) POS 5 = Known position 5. Position the potentiometer in the fifth known position.
- 6) POS 6 = Known position 6. Position the potentiometer in the sixth known position.
- 7) nu. MEd = Number of averages. It represents the readings number that the instrument makes before displaying the data on the display. The shown value is therefore the set readings number average. The higher the value, the more stable the measurement is, but at the expense of the display speeds. Default value is 10.







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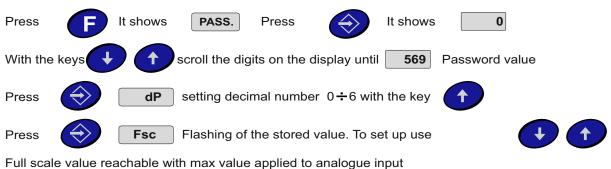
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SET PROGRAMMING

Set 1 Dato Visualizzato Scroll the digits **Press** up to the desired value. Dato Visualizzato Scroll the digits Press Set 2 up to the desired value.

Let it flash, at the end of the flashing the instrument will exit the programming after having stored the new values.

PROGRAMMING MENU



(Parameter is visible only if a 2-point calibration is selected, not visible with calibrations from 3 to 6 points)

0Sc Current value flashing. If you want to modify use Press

Zero Scale value means any value set with Analog Input signal = 0

(Parameter is visible only if a 2-point calibration is selected, not visible with calibrations from 3 to 6 points)

Press Current value flashing. If you want to modify use rAt



Rating. Delay in 1/10 sec. for refreshing between two successive readings (0 - 50) for slow analog signals.

bL-Current value flashing. If you want to modify use **Press**



Function to set or remove the negative sign (0 - 1)

to return to the menu or allow the digits flashing until the programming is finished. Press again

TECHNICAL PARAMETERS DESCRIPTION

Parametri tecnici visualizzati durante la programmazione.

- 1) dP = Decimal point. Move the decimal point to the desired position using the arrow keys.
- 2) rAt = Rating. It is the delay set in 1/10 sec. which allows the refreshment between two successive readings suitable for slow variations.
- 3) **0Sc** = Zero scale. It is the reading starting value that can also have negative values. Displayed value with analog signal equal to 0V.
 - Parameter is visible only if a 2-point calibration is selected, not visible with calibrations from 3 to 6 points
- 4) FSc = Full scale. It is the value that is fixed as potentiometer maximum excursion, that is equal to 12V. Parameter is visible only if a 2-point calibration is selected, not visible with calibrations from 3 to 6 points
- 5) bL- = Set or remove the negative sign. With a 1 setting, it does not display negative values but the display of negative values is locked to 0.
- 6) Set1 = Set threshold value; when this is reached, output 1 is activated.
- 7) Set2 = Set threshold value; when this is reached, output 2 is activated.







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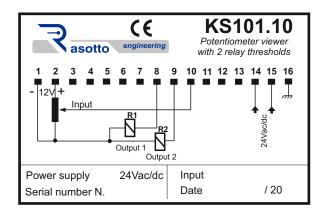
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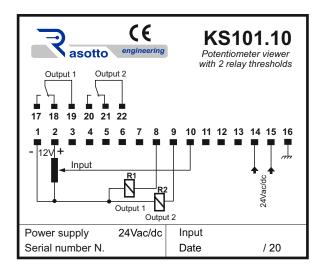






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