Potentiomenter viewer

Series of analog-digital instruments with correction coefficient automatic calculation through the calibration of 2 points.
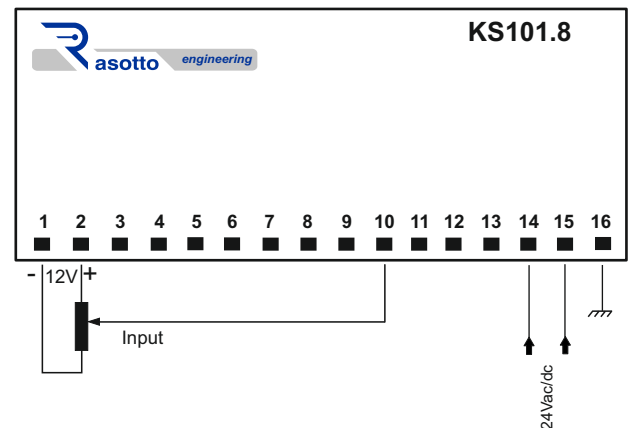The main features of this instrument are the zero scale setting corresponding to the input signal minimum value, the full scale value free setting associated with the input signal maximum value, the decimal point setting and the reading refreshments frequency.
The set data storage is automatically carried out on the internal memory, at the end of the digits flashing.
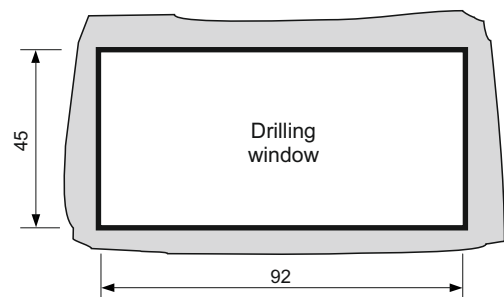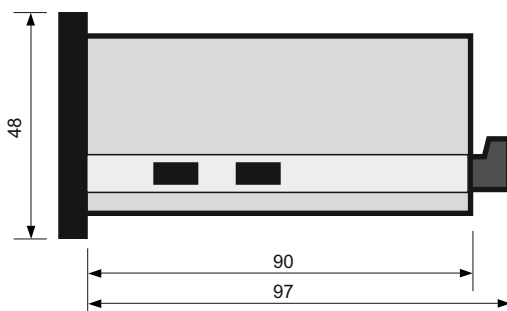
Technical features

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 / 20..90% R.U. without condensation
Storage conditions	-25.. +80°C / 20..90% R.U. without condensation
Mounting	recessed mounting
Container	ABS 48 x 97 x 90mm
Protection degree	IP30

Electrical connections

Dimensions

N°3143   N°IT-28601

Potentiomenter viewer

OPERATION CYCLE

On power-up, after displaying the product name and the firmware version, the instrument displays the analog input value that is given by the potentiometer position based on the set data during programming.

CALIBRATION MENU

Press **F** It shows **PASS.** Press ⬦ It shows **0**

With the keys ⬇ ⬆ scroll the digits on the display until **507** Password value

Press ⬦ **POS 1** position yourself at the first known measure and then press ⬦

0.0 Flashing of the stored value. To set up use ⬇ ⬆

and confirm with ⬦ **POS 2** position yourself on the second known measure and press ⬦

0.0 Flashing of the stored value. To set up use ⬇ ⬆

Confirm with the ⬦ key or let it flash to confirm the value and end programming.

READINGS AVERAGE VALUES CALIBRATION MENU

Press **F** It shows **PASS.** Press ⬦ It shows **0**

With the keys ⬇ ⬆ scroll the digits on the display until **103** Password value

Press ⬦ **nu. MEd** number of averages, press ⬦

10 Flashing of the stored value. To set up use ⬇ ⬆

Confirm with the ⬦ key or let it flash to confirm the value and end programming.

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) 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.

PROGRAMMING MENU

Press **F** It shows PASS. Press ⬦ It shows 0

With the keys ⬇ ⬆ scroll the digits on the display until 569 Password value

Press ⬦ dP setting decimal number 0÷6 with the key ⬆

Press ⬦ Fsc Flashing of the stored value. To set up use ⬇ ⬆

Full scale value reachable with max value applied to analogue input

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

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

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

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

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

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

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

TECHNICAL PARAMETERS DESCRIPTION

Technical parameters displayed during programming.

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 0.
4) FSc = Full scale. It is the value that is fixed as potentiometer maximum excursion, that is equal to 12V.
5) bL- = Set or remove the negative sign. With a 1 setting, it does not display negative values.

Potentiomenter viewer

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |

Input

24Vac/dc

| Power 24Vac/dc | Date | 20 | Ser. N. RS - |