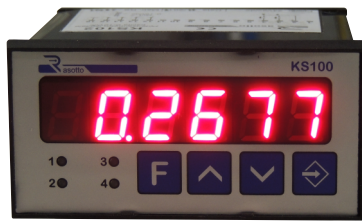*Analog input viewer with serial output*

Series of analog-digital instruments with correction coefficient automatic calculation by setting the full scale and zero scale values.
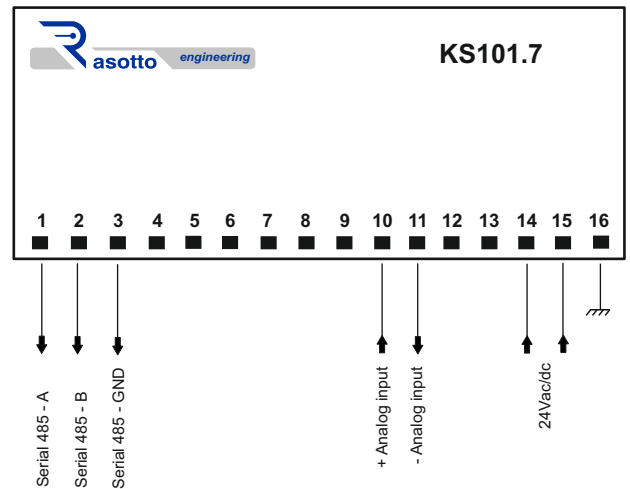RS 485 serial output for remote data viewing.
The main features of this instrument are the zero scale setting corresponding to the input signal minimum value, the full scale value free setting associated with the input signal maximum value, the decimal point and the refreshments frequency reading setting.
The set data storing is automatically carried out on the internal memory, at the end of the digits flashing.
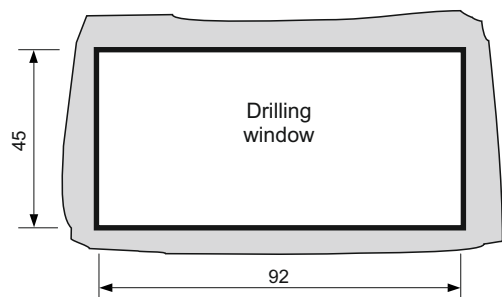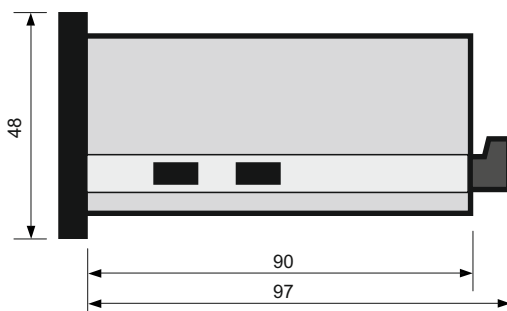
Technical features

Power supply	24Vac/dc +/- 5%
Absorption	6 VA nominal
Display	6 digits H= 13mm
Full scale max value	999999
Resolution	+/- 1 digit on 1024 f.s.
A/D conversion	10 Bit = 1024 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

KS101.7

1 — Serial 485 - A
2 — Serial 485 - B
3 — Serial 485 - GND
10 — + Analog input
11 — - Analog input
14 15 — 24Vac/dc

Dimensions

48
90
97

45
Drilling window
92

Analog input viewer with serial output

WORK CYCLE

On power-up, after displaying the product name and the firmware version, the instrument displays the analogue input value based on the set data during the programming phase. Via RS-485 serial, the displayed data is sent back to connected KS300A instruments.

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 set as the maximum input signal excursion.
5) **bL- =** Set or remove the negative sign. With a 1 setting, it does not display negative values.

Analog input viewer with serial output

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

N°3143   N°IT-28601