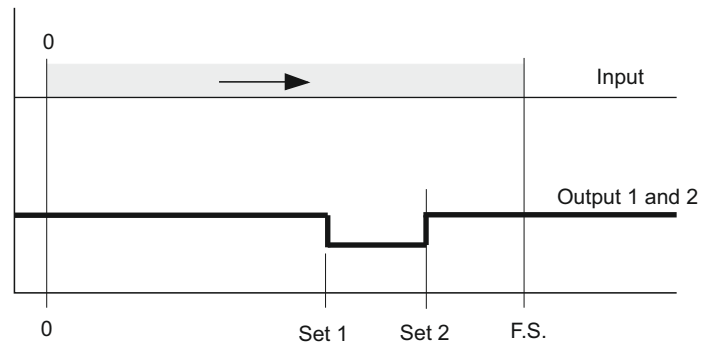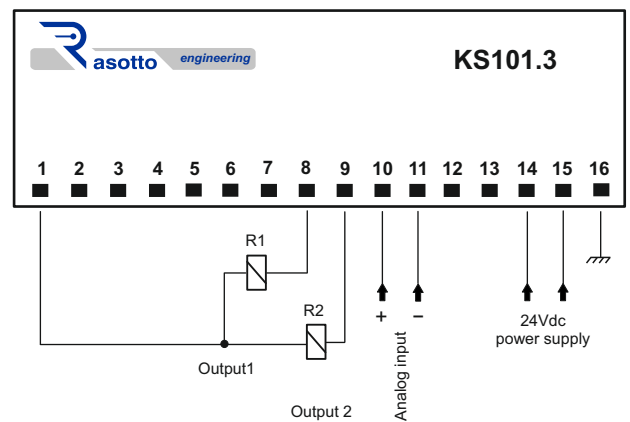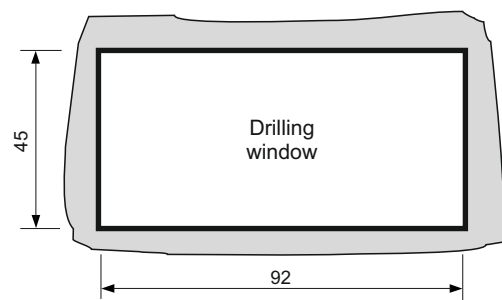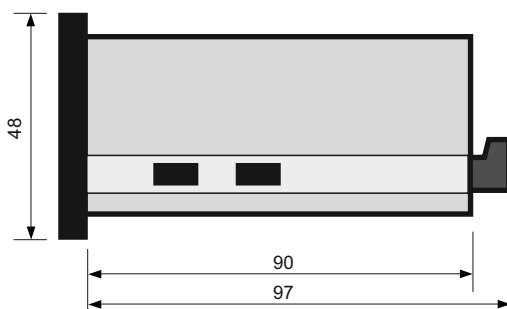## Analog signal viewer with 2 thresholds

Microprocessor instrument with analog input and correction coefficient automatic calculation by setting the full scale value and zero scale value. The main features of the instrument are the decimal point setting, the zero setting, the full scale value free setting associated with the input signal maximum value and the 2 thresholds setting with the output relay enabling. The set data storage is carried out at the end of the digits flashing.

Operating mode

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
Differential value	0 ÷ 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

Analog signal viewer with 2 thresholds

OPERATION CYCLE

At power-on after showing the product name and the firmware version, the instrument shows the analog input value based on the set data during programming. Relays 1 and 2 are enabled if the analog signal value is less than set1 or greater than set2.

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 **diF** Current value flashing. If you want to modify use

Output operation within a hysteresis window

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 **Set 1** **Dato Visualizzato** Scroll through the numbers up to the desired value.

Press **Set 2** **Dato Visualizzato** Scroll through the numbers up to the desired value.

Press again to return to the beginning of the menu or let the digits flash to exit automatically from programming.

TECHNICAL PARAMETERS DESCRIPTION

Technical parameters displayed during programming:

1) dP = Decimal point. Position the decimal point using the arrow keys.
2) diF = Differential. It is the value to set to create an operation window of the relay output if present (hysteresis value). For set1, the output is activated as soon as the analogue signal falls below the set1 value and is deactivated when set1 + set differential value is exceeded; the operations is opposite for set2.
3) rAt = Rating. It is the delay set in 1/10 sec. which allows the refreshment between two successive readings suitable for slow variations.
4) 0Sc = Zero scale. It is the reading starting value that can also have negative values. Value displayed with analog signal equal to 0 V.
5) FSc = Full scale. It is the value that is fixed as input signal maximum excursion, that is 10V.
6) bL- = Set or remove the negative sign. With a 1 setting, it does not display negative values.
7) Set1 = Threshold value set; when it is reached output 1 is activated.
8) Set2 = Threshold value set; when it is reached output 2 is activated.

Analog signal viewer with 2 thresholds

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KS101.3
Analog display with 2 relay thresholds

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

R1
R2
Output 1   Output 2
+ −
Analog-IN 0-5V
24Vdc

| Power supply | 24Vdc | 0-5Vdc analog input |
| Serial Number N. | | Date   / 20 |

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KS101.3
Analog display with 2 relay thresholds

Output 1   Output 2

| 17 | 18 | 19 | 20 | 21 | 22 |

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

R1
R2
Output 1   Output 2
+ −
Analog-IN 0-5Vdc
24Vdc

| Power supply | 24Vdc | 0-5Vdc analog input |
| Serial Number N. | | Date   / 20 |

ICIM N°3143
ACCREDIA N°IT-28601
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