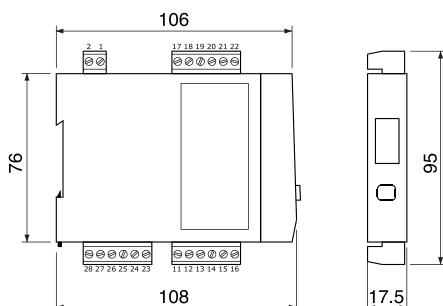


Versatil converter CUB-233



- 1 Input, multi-parameters
mA, V, Pt 100, potentiometric, resistor
- Supply to the sensor
- 2 analogue outputs
- 2 relay outputs
- Setting by joystick or PC
- Linearization and taring function
- Wide range of main supply
80 ... 256 V AC 50/60 Hz; 20 ... 240 V DC

APPLICATIONS

For most of all use on signal conversion::

- Level measuring probe with potentiometric output
- Level measuring probe, 2-wire, 4-20 mA output
- Temperature probe with Pt 100 sensors or thermocouple
- Zooming on input signal
- Linearization along "up to" 100 points
- Alarming function for all the above sensor

DESCRIPTION

Converter 233 is a great solution for any applications to convert or monitor output signals from sensors.

Both analogue outputs may be set up as mA or mV signals and both relay outputs may be set up all along the scale (thresholds, hysteresis and delay).

TECHNICAL FEATURES

Power supply	80 ... 256 V AC, 50/60 Hz and 20 ... 240 V DC (no polarity)
Consumption	< 4 VA
Display	LCD screen
Ambient temperature	-10 ... +60 °C
Protection	IP 20
Mounting	Rail DIN 17.5 mm
Connections	4 removable terminal blocks
Programming	Programming through a joystick or a PC

Multi-parameters input:

Current	0...20 or 4...20 mA
Voltage	0... 100 mV or 0 ... 10 V
Resistor thermometer	Pt 100 / Pt 1000, 2-wire or 3-wire sensors
R2-wire resistor	Ranges: 1 kΩ; 5 kΩ; 10 kΩ; 50 kΩ
PTC and NTC sensors	Scales: 1 kΩ; 5 kΩ; 10 kΩ; 50 kΩ; programming with the software BLOG-CUB
Thermocouples	J, K, T, B, R, S, E, NiMo, N, W3/D, W5/C, P
Potentiometric input	From 470 Ω up to 100 kΩ
Power supply to sensor	2-wire or 3-wire sensors: Max. 19V and 26 mA

2 Analogue outputs and 2 relay outputs:

Current	0...20 and or 4...20 mA (Impedance < 700 Ω)
Voltage	0...10 V (Impedance > 2 kΩ)
Relay	Change-over 500 mA / 250 V

CE conformity: The device meets the legal requirements of the current European Directives.



Pression - Température

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Versatil converter
CUB-233

04-03-2024

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CODE NUMBERS AND REFERENCES

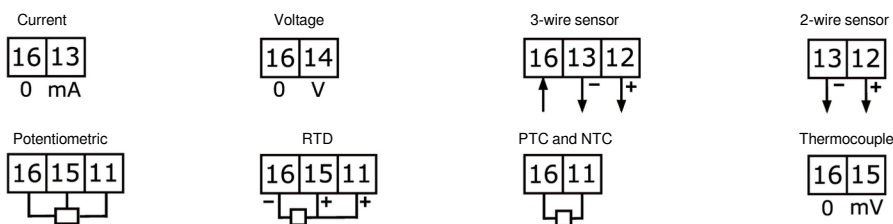
Code	Reference	Description
233 200	CUB-233	Versatil converter
233 205	CUB	Communication interface
233 206	BLOG-CUB	Programming software

FUNCTIONS

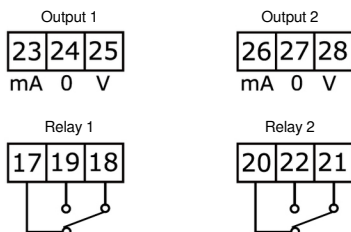
Display unit	LCD, green, non-backlit
Displayed information	Real time input value and as programmed value Outputs as set up values and percentage Relays status
Display adjustment	Lighting display adjustment according to ambient temperature
Input scale factor	Allows a zoom effect on input signal or manual or automatically.
Output scale factor	Allows a zoom effect on input signal and displayed value.
Programming	Programming through a joystick in front, 5 positions
Memory, Min. / Max.	Logging of Min. and Max. measurements
Saved value	Possibility to store at the output, the last measured value in case of sensor failure
Offset	Offset set up on input for any signal type
Taring function	Taring function on signal inputs
Simulation	Simulation programme actuates on analogue outputs, relays and display independently of input value and without disconnecting the sensors neither output connections.
Output signal restrictions	Possibility of limiting the output value High and low limits to set up
Reference junction	The reference junction is insured through a numerical sensor 16 bits
Input safety signal	In case of broken loop input signal, CUB 233 produces a set up value on display and outputs.
Linearization with 100 points	Allows an output signal from a segmented input signal. e.g.: Volume of a cylindrical and horizontal tank vs. height of fluid
Linearization PTC - NTC resistors	Allows to correct the PTC or NTC signal against segmented input signal. (programming only with the software BLOG CUB)
Thresholds	Simple mode or bandwidth mode, with positive or negative safety Set up of hysteresis and delay, independently for decreasing or increasing signals. Direct access to thresholds, memory and alarm reset
Alarm reset	Independently on each alarm
Alarm saving	Independently for each alarm
Other functions	Cut Off - 1 or 10 points resolution - Comma position - Filtering - Joystick lock - Contrast adjustment of display screen

ELECTRIC CONNECTIONS

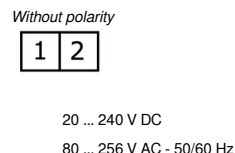
Input signals (1 to choose)



Output signals



Power supply



Pression - Température

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233-02/2