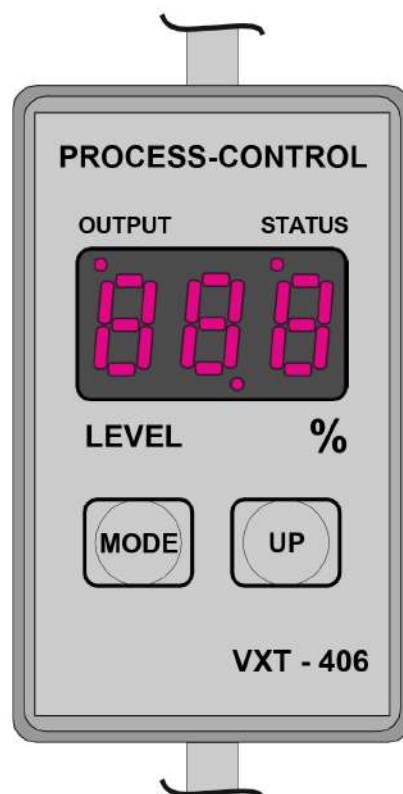


Process Indicator / Mini / VXT 406

/ VXT 406A /
/ VXT 406D /



User manual

Technical data

Indication: LED.

- 3 digits - digital (99,9%);
- 'OUTPUT' - output status - red LED ;
- 'STATUS' - alarm - red LED.

Power:

- Supply voltage- 10 - 30Vdc;
- Own consumption - < 0,5W.

Inputs: 2 analog:

- U in - voltage 0 - 10V, Rin > 100k;
- I in - current 0-20mA or 4-20mA Rin = 125;

Output: (only for model STS 406D).

- optical - isolated with overload protection.
- PNP / NPN - depending of connecting circuit;
- in mode Frequency output - Fout = 150-1000 Hz;
- maximum applied voltage - 30Vdc;
- maximum output current - 200mA.

Electrical connection:

- Input - connector M8-4, with cable 4x0,25mm² - 0,5 meter;
- output- cable 4x0,25mm² - 2 meter.

Dimensions: 61x37x16.

Material: plastic.

Working temperature range: 0 .. +50°C.

Operating humidity: 0 .. 80% RH

Degree of protection: IP 40.

Storage conditions:

- temperature - -10 .. +60°C
- humidity - 0 .. 95% RH

Description

The **VXT406** is a 3 digits mini-process indicator on the cable. It serves for the visualization of analog values with the possibility to participate in the control of the process. The indication of the value is in relative units / percent 0-99.9% /. The device has two analog inputs: voltage 0-10V and current 0-20mA or 4-20mA / the current input is mounted only on STS406D /.

The process indicator is available in two versions: Analog and Switching Output:

- **VXT406A** - analog- the outputs repeat the input value. This option is only for visualization of the analog value. No current input is monitored in the model.
- **VXT406D** - digital - with switching output optical isolated with the possibility of reconnecting in PNP and NPN circuit. The output has overload protection.

The switching output modes are:

- switching with hysteresis - fig.1;
- window - fig.2;
- switch to limit - fig.3;
- frequency conversion - converts the input analog signal to frequency /0 - 99,9% in 150 - 1000Hz/.

The switching limits are set by the menu as an important condition is that the second limit P2 to be greater than the first P1 / $P2 > P1$ /.

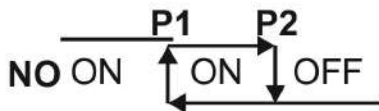


Fig.1.



Fig.2.

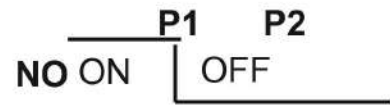
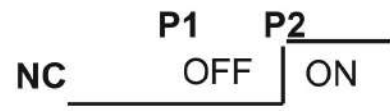
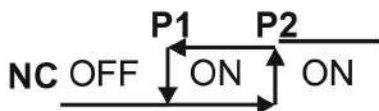


Fig.3.



Change parameters

Changing the parameters is done with the two buttons **'MODE'** and **'UP'** on the front panel. **See Diagram - Parameter Change Menu.** All parameters without options for analog input and filter only for model STS406D.

Accessing to the menu is done by pressing and holding the **'MODE'** button for 3 seconds. The display shows the **'INP'** parameter for change.

'INP' - analog input option. Confirm by pressing the 'MODE' button again. The display shows **'Uin'** - voltage input. The change in current is done by pressing the button 'UP' /the current input is available **only** for STS406D!/ From selected voltage input by pressing button 'MODE' pass to setting of limit 1 **'Li1'**/. When the current input is selected by pressing button 'MODE' pass to setting of the range **'RNG'** - 0-20mA **'020'**/ or 4-20mA **'420'**/. The selection is done by pressing the 'UP' button. The selected range is confirmed by pressing the 'MODE' button and pass to setting limit 1 **'Li1'**/.

'Li1' - limit 1. Confirm by pressing the 'MODE' button again. The junior discharge / right digit flashes. The value is selected by pressing the 'UP' button several times. Moving to the next digit is done by pressing the 'MODE' button. After setting and the last digit and confirming with 'MODE', proceed to set the limit 2 **'Li2'** /.

'Li2' - limit 2. Confirm by pressing the 'MODE' button again. Limit 2 values are set like to limit 1. A mandatory condition is that limit 2 to be greater than limit 1. In case of incorrect setting after confirming the last digit the display shows **'Li2'** and requires new entering of correct value. If correct values are confirmed it pass to output mode. The display shows **'MOD'**.

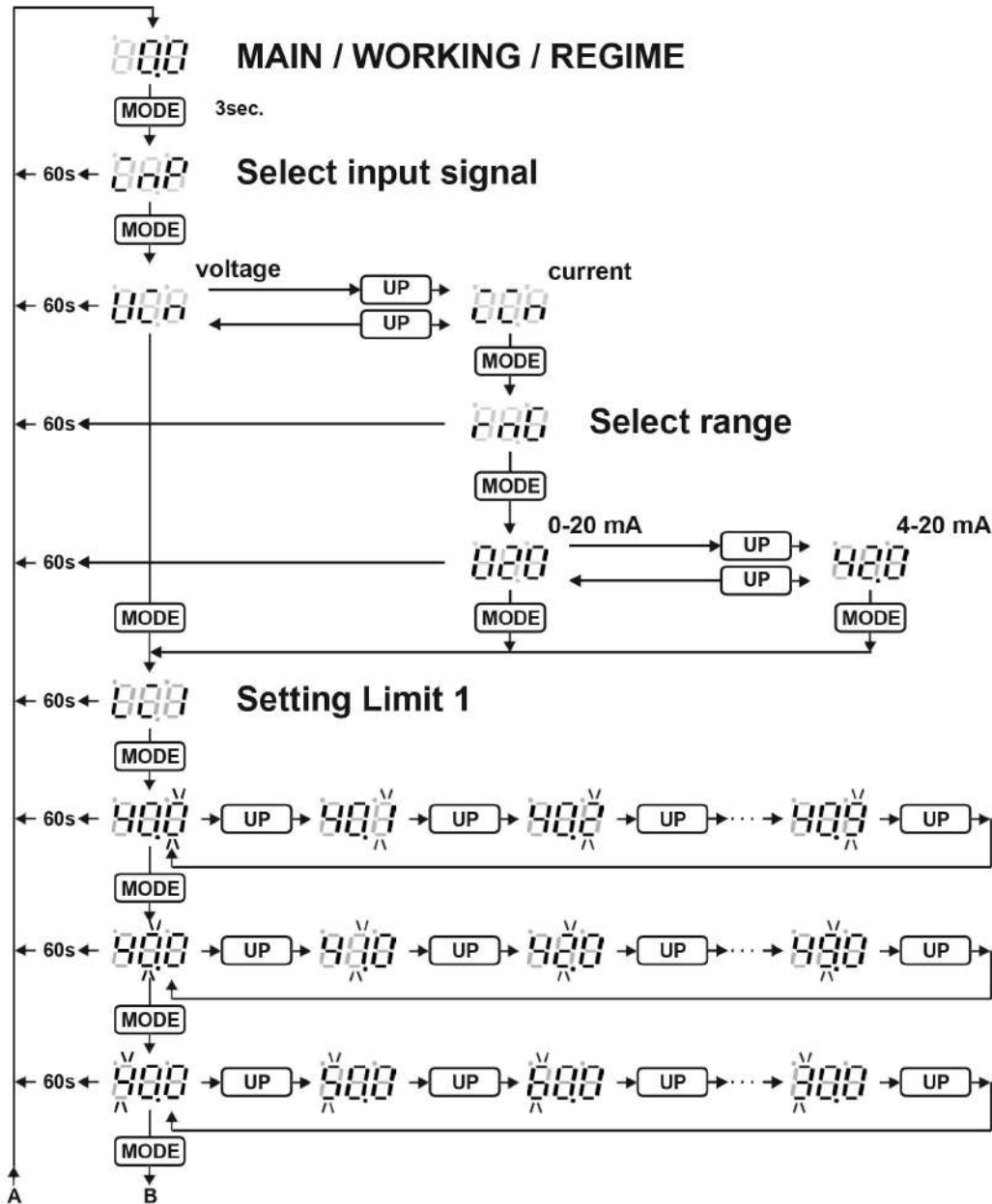
'MOD' - selects output mode. Confirm by pressing the 'MODE' button again. Modes: hysteresis **'HIS'** /, window **'WIN'** /, a switch to limit **'SWC'** / and frequency transformation **'U-F'** /, are listed by pressing the 'UP'. Desired is confirmed by pressing the 'MODE'. This pass to selecting the state of the output - **NO / NC**. The display shows **'OUT'**. When selecting the frequency mode, it goes directly to the filter setting.

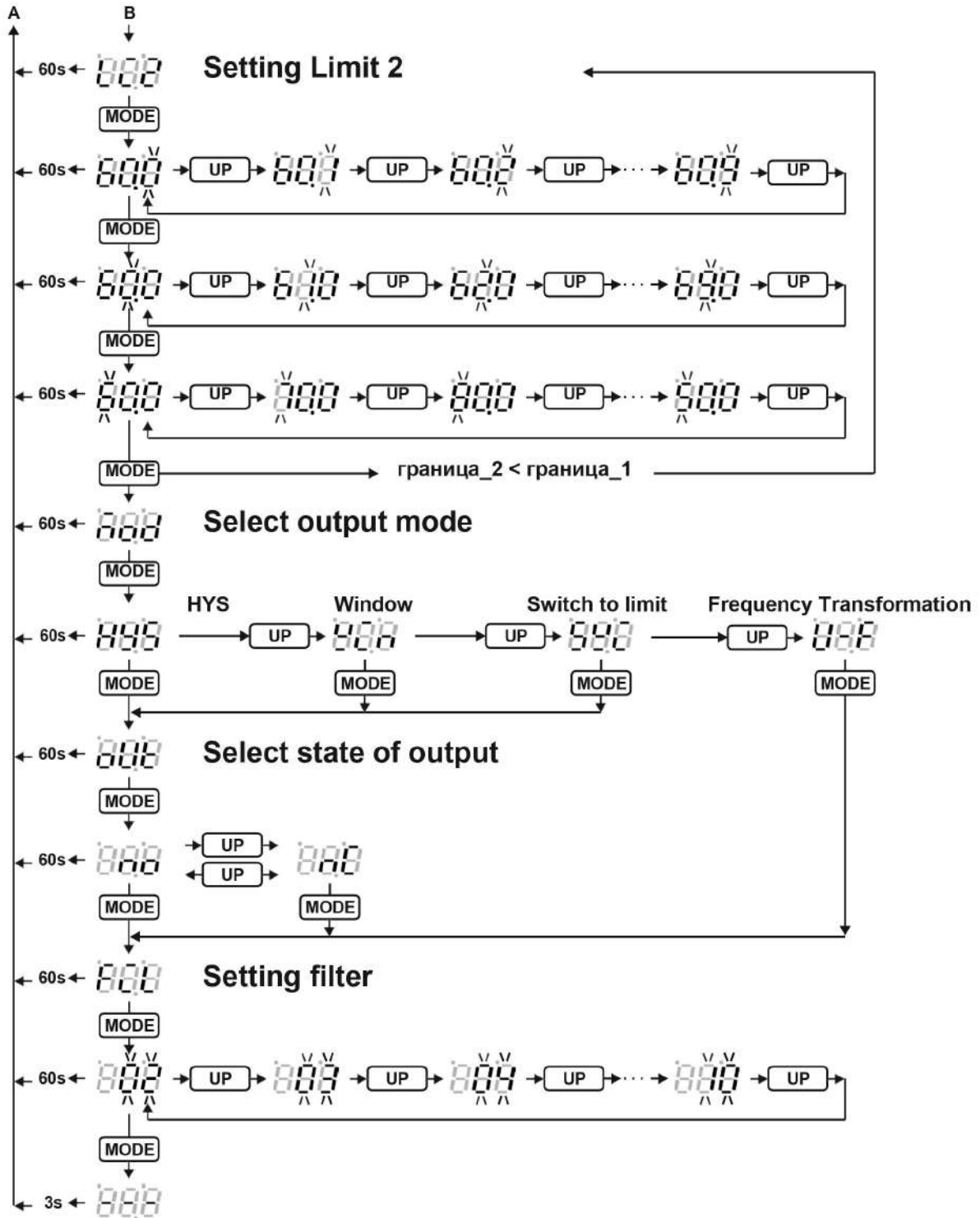
'OUT' - Selection of output state - NO / NC. Confirm by pressing the 'MODE' button again. The display shows the current status. The desired **'NO'** or **'NC'** is selected with the 'UP' button. Confirm by pressing the 'MODE' button. The display shows **'FIL'**.

'FIL' - adjusts the filter. Confirm by pressing the 'MODE' button again. The current value is shown. The desired value is selected by repeatedly pressing the 'UP' button (from 2 to 10). Confirm by pressing the 'MODE' button. The display shows '---' and the device only / after loading the changes and the filter / go to main / operating / mode.

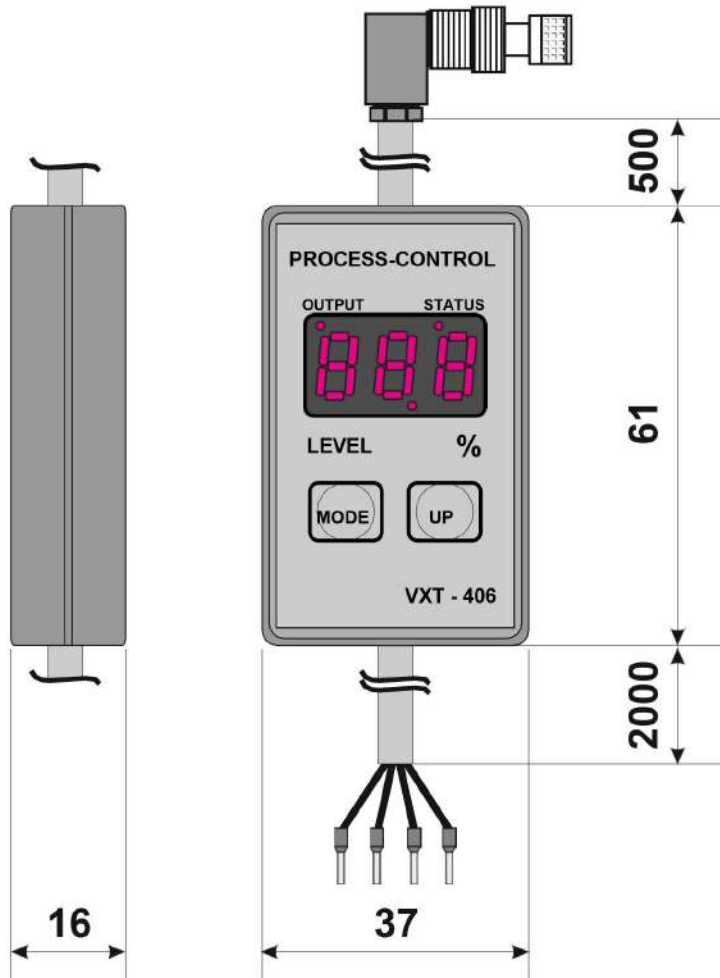
Note: If you stay in a menu for more than 60 seconds. without pressing a button, the device automatically go to operating mode saving all changes in the manu.

DIAGRAM Parameter change menu



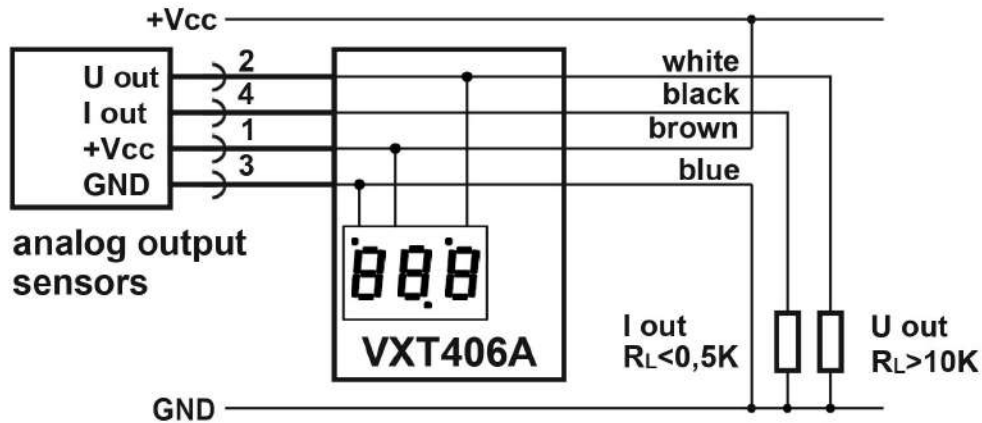


Overall dimensions

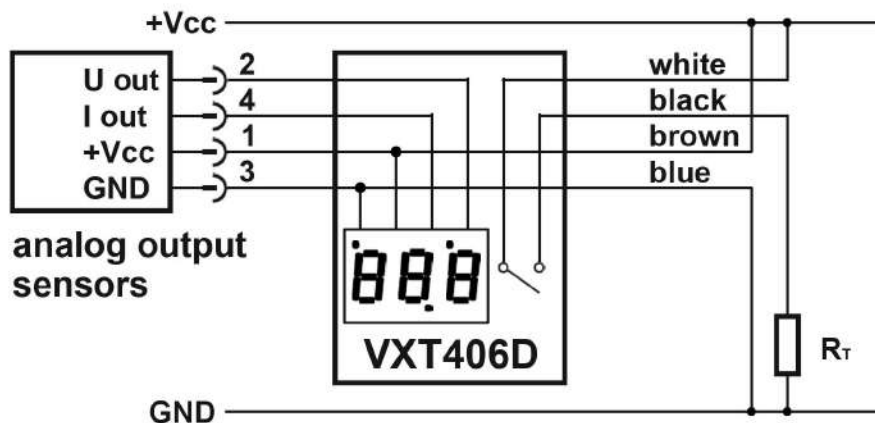


Connection circuit

- VXT406A:



- VXT406D - PNP version:



- VXT406D - NPN version:

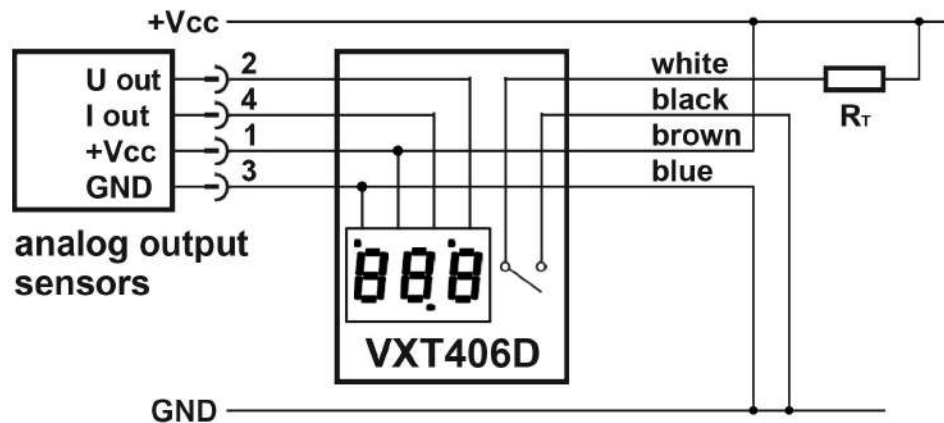


Table with used symbols

8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R

8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
S	T	U	V	W	X	Y	Z	0	1	2	3	4	5	6	7	8	9

Notes

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GENERAL CONDITIONS for usage of electronic devices:

The electronic devices are intended to be used in normal climate conditions in an environment with a normal fire-safety, and without any aggressive to the body material liquids and gases.

WARRANTY CONDITIONS:

The guarantee period is 12 months from the date of selling.

The manufacturer does not take responsibility in the following cases:

- non-observance of storage conditions;
- non-observance of transport conditions;
- non-observance of operational conditions;
- natural disasters;

The guarantee is only valid if the device is mechanically intact, and there is no sign of attempts for eliminating damage by unauthorized personnel. Transportation expenses are on customer's account.

Attention: No organic solvent agents should be used for cleaning the front panel!

FACTORY NUMBER: _____