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Единый адрес: psx@nt-rt.ru Веб-сайт: www.pixsys.nt-rt.ru

Индикаторы STR561 PIXSYS. Техническое описание

Indicator with strain-gauge input 96x48 **STR561**

Visualization, alarm and signal re-transmission functions, multi-voltage power supply, communication serial port.



The indicator with strain-gauge input STR561 is designed as display for load cells and pressure sensors and includes isolated power supply for the strain-gauge. The conversion frequency programmable up to 1.2 KHz and the resolution of up to 24bit ensure high levels of accuracy. Various calibration modes can be selected for the analogue input (sample weight, percentage value on scale base, mV/V value).

Software key functions include multiple options for calibration management, Totalizer and Sum functions, graphic visualization of process trend with programmable time basis or bar- graphs with alarm/event thresholds.

An auto-configuration mode has also been implemented for selected Dynisco melt pressure sensors, simplifying the initial set-up for the user. Connectivity is guaranteed by RS485 with Modbus RTU/Slave protocol.

For maximum flexibility of use, it is also possible to choose between horizontal or vertical installation.

Distinctive feature of the entire STR series is the innovative multilingual interface, with text menus allowing intuitive and quick navigation of parameters and visualization pages.

It is possible to choose among five languages and the comprehensive menu considerably reduces the need to consult technical manual for initial set-up.

User friendly, multimedia support and traceability

For the complete range of Pixsys products we provide technical support for installation, programming and operation via our online forum and via Skype.

The interface of STR561 indicator ensures that the product is user-friendly and the user is also supported by programming tools such as MEMORY-CARD or by the APP MyPixsys (Android devices).

Tutorial videos are available on our YouTube channel.

As for the entire range of PIXSYS products, traceability of the product is guaranteed during its entire life cycle by QR code; information and documentation online can be accessed reading QR CODE by mobile device with immediate visualization of product technical data and check of warranty status.

Ordering codes

STR561-12ABC-T128

1 Strain gauge analogue input + 2 relays 2A + 1 Out 0/4..20mA + RS485 Modbus RTU / Slave + Oled Display (monochromatic yellow)

Main features

Box

96x48 (Front panel) x 48 mm / or 1/8Din

Power supply

24...230V AC/DC $\pm 10\%$ 50/60 Hz (galvanically isolated) 2500V

Power Consumption

6 VA

Display

Oled (monochromatic yellow)

Operating conditions

Temperature 0-45 °C, humidity 35..95 RH% (non condensing)

Material

Box: Polycarbonate V0

Weight

Approx. 165 g

Sealing

Front panel:IP54 (IP65 with gasket) - Box and Terminal blocks: IP20

Quick set-up options

Memory Card microUSB, APP. MyPixsys (Andorid devices)

Wiring

extractable terminal blocks and spring locking

Visualization range

-999999 ...+999999

Inputs

1 Analogue strain gauge

Strain gauge input ADC 23 bit (8000000 points). Max 2 350Ω parallel load-cells or max 4 720Ω load-cells. Linearity < 0.01 % F.S. -thermal drift < 0.001% F.S. / °C . Max input signal 39 mV Max load-cell sensibility 7 mV/V. Potentiometer: min. 200 Ω (10000 points). Custom linearization up to 16 steps.

2 Digital

PNP inputs programmable for Run / Hold / Tare-Zero / Alarms manual reset / Peaks reset/ Min. peak reset / Activate-Reset Sum / Parameters lock. Net/gross weight visualization.

Sampling time

Configurable speed conversion from 1 Hz (8000000 points) to 1200 Hz (30000 points)

1 Encoder

Overlapped to digital inputs. Rotative for setpoint modification.

Outputs

2 Relays

2A - 250VAC (resistive charge)

1 analogue

1 Configurable as 0..20mA or 4..20mA. Resolution (16bit 60000 points)

1 strain gauge power supply

5 VDC - 35mA max.

1 Auxiliary

12 VDC - 30mA for digital inputs

Serial communication

RS485 Modbus RTU - Slave (galvanically isolated from Power supply/Inputs/Outputs)

Software features

Alarms regulation

ON - OFF with hysteresis

Alarm mode

Absolute / Threshold, Band with instantaneous/delayed/retentive/by digital input activation,
Sensor failure / Activation by serial line

Sum Function

By digital input or by keyboard it is possible to sum different process measurements over time

Totalizer Function

Visualisation of instant process value and total value since last reset

Trend visualization

Trend visualisation with selectable time basis 1 to 3600s

Analogue retransmission

Process values / Setpoints

Digital transmission via RS485

Process values / Setpoint / Parameters

Calibration function

Sampling value, full scale % value, value mV/V

Text menus

English/Italian/Deutsch/French/Spanish

Measure unit visualization

Selection of different measure units

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