Load cell indicator 96×48 STR561

Weight and force indicator 96×48 mm with OLED display
High-resolution strain gauge input, 2 relays, RS485



KEY FEATURES

- High-resolution strain gauge entry
- Flexible calibration
- Weighting functions
- Alarms, relaying and Modbus

Description

The STR561 from Pixsys is a 96×48 mm panel indicator dedicated to load cells and strain gauge sensors. Its graphical OLED display displays weight or force, trend and bar graph, with clear text menus available in French.

High-resolution strain gauge entry

The input reaches 8,000,000 points at 1 Hz and up to 1200 Hz for dynamic measurements. It powers up to 4 350 Ω cells in parallel, with a linearity of less than 0.01% of full scale.

Flexible calibration

Calibration is done using a standard weight, as a percentage of the full scale, or directly in mV/V from the sensor datasheet. Auto-configuration is also provided for some Dynisco material pressure sensors.

Weighting functions

Tare management, raw/net display, peak memory, totalizer and sum function are accessible on the front panel or via the two digital inputs.

Alarms, relaying and Modbus

Two 2 A relays manage the thresholds; an output 0/4…20 mA transmits the measurement, and the isolated RS485 port communicates using Modbus RTU slave. The configuration is also done via NFC.

Typical applications

- Weighing of silos, tanks and vats
- Force measurement on presses and test benches
- Control of material pressure on extruders
- Replacement of the STR560, the successor of which is the STR561

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Technical specifications

General characteristics

Dimensions	96 x 48 mm (1/8 DIN), depth 48 mm
Nutrition	24…230 VAC/DC ±15 %, 50/60 Hz (galvanic isolation 2.5 kV)
Consumption	8 W/VA
Display	Yellow 2.42 OLED graphic display, 128 x 64 pixels
Materials	Polycarbonate V0 casing, silicone rubber front panel
Weight	Approx. 165 g
Protection index	Front view IP54, housing and terminals IP20
Terms of use	0 to 45 °C, 35 to 95 % RH, maximum altitude 2000 m
Certifications	CE, UL

Cell charge entry

Resolution	Up to 8,000,000 points (1 Hz); 30,000 points at 1200 Hz
Connectable cells	Up to 2 x 350 Ω or 4 x 720 Ω in parallel
Linearity	< 0.01% full scale
Thermal drift	< 0.001 % PE/°C
Signal max.	39 mV, max sensitivity 7 mV/V
Excitation	5 VDC, 35 mA max.
Calibration	Standard weight, % full scale, mV/V
Potentiometer input	Min. 200 Ω (10,000 points)
Digital entries	2 PNP: tare/zero, hold, reset pic, totalizer, gross/net…

Outings and communication

Order code	STR561-12ABC-T128R
Relais	2 x 2 A 250 VAC resistive load
Analog output	1 x 0/4…20 mA (60,000 points)
Auxiliary output	12 VDC, 30 mA max.
Communication	Isolated RS485, 1200 to 115 200 baud, Modbus RTU slave, micro USB, NFC

Software functions

Alarms	ON/OFF with hysteresis: threshold, band, delayed, latched, via digital input, sensor fault
Weighing	Tare, gross/net, peak max. and peak to peak, totalizer, sum
Display	Trend (0.1 to 3600 s) or bargraph
Languages of the menus	French, German, Italian, English, Spanish
Data protection	Locking of the settings, access to the parameters via password

Technical advice and quote

DYNATIME SA distributes this product in Switzerland from Marin (NE). Our team helps you choose the right version for your application and sends you a quote quickly.
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