Universal process indicator 96×48 STR551

Digital indicator table 96×48 mm with OLED screen
Universal input, 2 relays, analog outputs, RS485



KEY FEATURES

- Universal input 16 bits
- Alarms and broadcasting
- Calculations functions
- NFC and Modbus configuration

Description

The STR551 from Pixsys is a digital 96×48 mm table display. Its OLED graphic display displays the measured value, a trend or a bar graph, with clear text menus available in French, German, Italian, English and Spanish.

Universal input 16 bits

The input accepts thermocouples, thermoresistors, thermistors, 0…10 V signals, 0/4…20 mA signals, 0…60 mV signals, and potentiometers. A linearization up to 16 points allows the display to be adapted to non-linear sensors.

Alarms and broadcasting

Two 2 A relays manage the alarm thresholds, in absolute mode, band, delayed or stored mode. Two analog outputs 0…10 V and 0/4…20 mA transmit the measurement to an automation system or recorder.

Calculations functions

The totalizer, time-based sum function, trend recording, and customizable measurement units make the STR551 much more than just a simple display.

NFC and Modbus configuration

The indicator is configured via NFC with the MyPixsys application without being powered, or via micro USB. The isolated RS485 port in Modbus RTU connects it to the supervision system.

Typical applications

- Displaying temperature, pressure, level or flow on the front of the cabinet
- Threshold monitoring with relay alarms
- Transmission of a measurement to an automated system
- Replacement of the STR550, whose successor is the STR551

Non-contractual document. Specifications subject to technical changes. Edition 11/2026.

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

Entrées

Analog input	1 input, resolution 16 bits
Thermocouples	K, S, R, J, T, E, N, B (cold welding compensation -25 to 85 °C)
Thermostatic resistances	PT100, PT500, PT1000, Ni100, Ni120
Thermistances	PTC 1K, NTC 10K, NTC 2252
Process signals	0…1/5/10 V, 0/4…20 mA, 0…60 mV
Potentiometer	1…150 kΩ
Linearization	Up to 16 points
Digital entries	2 PNP
Sampling time	Programmable up to 4.1 ms (242 Hz)

Outings and communication

Order code	STR551-12ABC-T128R
Relais	2 x 2 A 250 VAC resistive load
Analog outputs	1 x 0…10 V and 1 x 0/4…20 mA (60,000 points)
Auxiliary output	12/24 VDC, 25 mA max. for sensor power supply
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
Calculations	Totalizer, sum over time
Display	Trend (time base 1 to 3600 s) or bargraph with thresholds
Languages of the menus	French, German, Italian, English, Spanish
Configuration	NFC (app MyPixsys), MyPixsysLab, Memory Card, EASY-UP codes
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.
+41 32 968 15 36 · **info@dynatime.ch** · dynatime.ch/en/catalog/str551-universal-input/

Non-contractual document. Specifications subject to technical changes. Edition 11/2026.