

# STR

## Indicators / Panel meters



**STR551**  
Process indicator (temperature, mA, V)  
Customizable linearization  
Totalizer / Sum  
Analogue retransmission



**STR561**  
Strain-gauge indicator  
Load cells / Melt pressure sensors  
Tare / Totalizer / Sum  
Analogue retransmission



**STR571**  
Modbus RTU remote display  
Master / Slave  
Up to 8 variables reading / writing

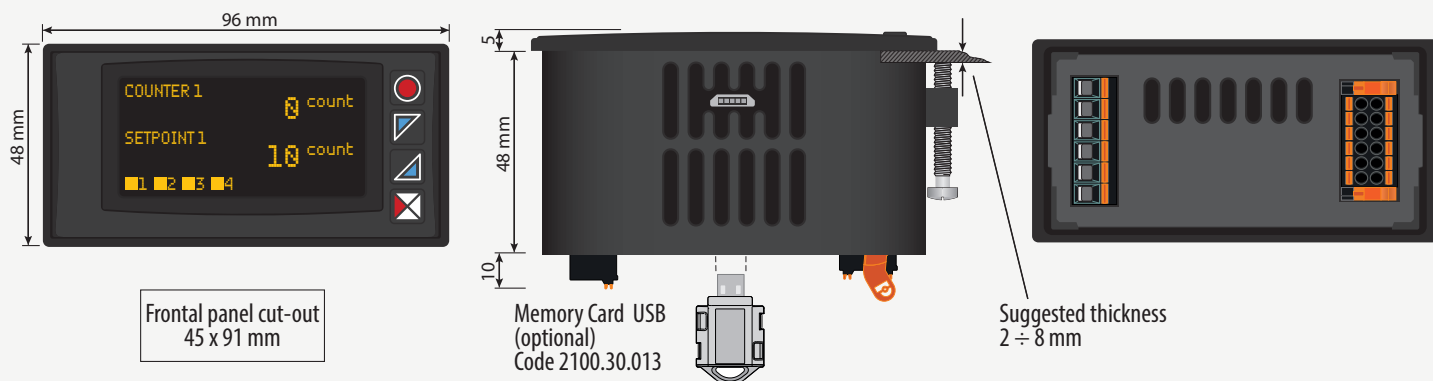


**STR581**  
Frequency counter / Tachometer  
PNP / NPN  
Proximity / Flow rate / Encoder

- ✓ OLED graphical display
- ✓ Multilingual interface
- ✓ Programmable by NFC/RFID through MyPixsys app
- ✓ RS485 - Modbus RTU
- ✓ High frequency analogue / digital converter



# STR Indicators / Panel meters



## COMMON FEATURES

|                            |                                                                           |
|----------------------------|---------------------------------------------------------------------------|
| MATERIAL                   | Box: polycarbonate V0. Front cover: silicone rubber                       |
| SEALING                    | Front panel: IP54, Box and terminal blocks: IP20                          |
| OPERATING CONDITIONS       | Temperature 0–45° C, Humidity 35..95 RH%, Max altitude 2000m a.s.l.       |
| DISPLAY                    | 2.42" monochrome (yellow) OLED graphic display, 128 x 64                  |
| POWER SUPPLY / CONSUMPTION | 24..230V AC/DC $\pm 15\%$ 50/60 Hz – galvanic isolation 2,5KV / 8 Watt/VA |
| RELAYS OUTPUT              | 2x 2A – 250V AC resistive load                                            |
| SERIAL COMMUNICATION       | RS485 (1200..115200 Baud) galvanically isolated                           |
| USB                        | 1x micro USB for programming via PC with MyPixsysLab                      |
| TREND VISUALIZATION        | With selectable time basis from 0,1sec to 3600sec total 4K memory word    |
| MEASURE UNIT VISUALIZATION | Selection of the process unit and description to be displayed             |

## STR551

|                  |                                                                                                                                                                                                                                                                                                       |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANALOGUE INPUT   | 1x Ris. 16bit, programmable for thermocouples K, S, R, J, T, E, N, B, Thermoresistances PT100, PT500, PT1000, Ni100, Ni120, PTC 1K, NTC 10k, NTC 2252, process signals 0..1/5/10 V (50000 points), 0/4..20mA (40000 points), 0..60 mV (25000 points), Potentiometer 1..150 K $\Omega$ (50000 points). |
| SAMPLING TIME    | Programmable up to 4,1 mS (frequency up to 242Hz)                                                                                                                                                                                                                                                     |
| ANALOGUE OUTPUTS | 1x 0..10V (60000 points) + 1x 0/4..20mA (60000 points for analogue input value retransmission)                                                                                                                                                                                                        |

## STR561

|                  |                                                                                                                                               |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| ANALOGUE INPUT   | For load cells / strain gauge signals : 1 x 23 bit (8000000 points). Max 2 350 $\Omega$ parallel load-cells, or max 4 720 $\Omega$ load-cells |
| SAMPLING TIME    | Conversion speed from 1 Hz (8000000 points) to 1200 Hz (30000 points)                                                                         |
| FUNCTIONS        | NET/GROSS management, sum, totalizer, alarm/event thresholds                                                                                  |
| AUXILIARY OUTPUT | 1x 5VDC – 35mA max (strain gauge supply)                                                                                                      |

## STR571

|                         |                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------|
| COMMUNICATION PROTOCOLS | 1x Modbus RTU Master + 1x Modbus RTU Slave (2x RS485 ports galvanically isolated) |
| VARIABLE MANAGEMENT     | Management of up to 8 Modbus RTU 16 or 32 bit variables                           |
| MULTIMASTER             | Connect up to 16 Modbus RTU master STR571 on the same serial line                 |
| VISUALIZATION           | 1..4 variables displayed per page, auto-rotating pages possibility                |

## STR581

|                          |                                                                                                                                    |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| ENCODER / COUNTER INPUTS | 1x Encoder/counter 32 bit – NPN, PNP, Push-Pull, Line-driver – max. 100KHz or 2 x Counter 64bit – NPN, PNP, Push-Pull – max 100KHz |
| FUNCTIONS                | Counter / tachometer / flowmeter, auto-rescale of the font according to the number of digits to be displayed (max 7 digits)        |
| DIGITAL OUTPUTS          | 2x PNP 12/24 VDC (25mA max) + 2 Relay                                                                                              |
| AUXILIARY OUTPUT         | 12/24 VDC (50mA max) for sensor supply                                                                                             |

## ORDERING CODES



|                    |                                                                    |
|--------------------|--------------------------------------------------------------------|
| STR551-12ABC-T128R | DOUBLE SETPOINT INDICATOR 48x96 OLED RFID – 2RL-RS485-24/230       |
| STR561-12ABC-T128R | DOUBLE SETPOINT CELLS INTERC. 48x96 OLED RFID – 2RL-RS485-24/230   |
| STR571-1ABC-T128R  | MODBUS REMOTE DISPLAY 48x96 OLED RFID 2RL 3D.I. 1 POT.IN. 2 RS485  |
| STR581-1ABC-T128R  | COUNTER / TACHOMETER 48x96 OLED RFID 2 RELAY – 4 DI – 4 DO – RS485 |