

## Digital Tensile Force Indicating Instrument SA DMS 621-E



The SA DMS 621 is an innovative and multifunctional, monochromatic OLED graphics display. It is optimal suited for direct connections of Tensometric sensors.

On the basis of high resolution and interference-stability, the application is doing well in rough production situations or in labs and testing departments.

With the 2 relay outputs and the galvanically isolated analog outputs, almost all measuring tasks can be performed. The monochrome yellow OLED display. This ensures optimal readability and an extremely large reading angle in difficult industrial environments, even in direct sunlight. The display can be programmed horizontally or vertically, including bar graph and trend displays. The RS485 Modbus interface leaves nothing to be desired.

Easy programmable and easy to operate by means of the 4 front-panel buttons:

### **programming :**

Programming and operation are menu-driven via the front keys.

It is done via text and can be switched in 5 languages. (English, Italian, German, French, Spanish).

All Settings are protected by a 4-digit password (can not be changed).

- Calibration the indication by feeding of value-pairs.
- Calibration the indication with connected strain-gage-sensors
- Linear-calibration with 16 value-pairs
- Zero-setting of the indication ( tare )
- Digital filter for a smooth and exact indication
- Adjusting the min-max-indication. Display as marginal-value or continuous tone, hysteresis
- Adjusting the decimal-point
- external control is individual programmable
- vertical and horizontal integration is possible and trend display, bar graph

2 different instruments are available:

for sensors with strain-gage system  
 or for sensors with a built-in amplifier

**SA DMS 621**

To work with the strain-gage system - sensors series M 11xx or LC11xx or STAK11xx - this instrument supplies the service-voltage of 5 V. This instrument amplifies the low output-voltage of the measuring-bridge.

**SA DMS 621-E**

To work with the strain-gage system -sensors series M13xx or LC13xx or STAK13xx with built-in amplifier – this instrument supplies a service voltage of 24 V. The sensor can be direct connected to this instrument.

**Technical data :**

<i>Display</i>	OLED-display
<i>Solution</i>	2,7" Display, 128 x 64 Pixel.
<i>Accuracy</i>	0,03%
<i>Linearity</i>	0,03% of the range
<i>Protection</i>	front-page for wash-down and / or dusty environments, IP 54
<i>Measuring cycle</i>	4,2 up to 242 (1200) / s
<i>Ambient temperature</i>	operating range: 0°C up to + 50°C, storage-range: -40°C up to +70°C
<i>Power supply</i>	24 VAC/DC bis 230 VAC/DC +/-15 %,50/60Hz, 6 VA
<i>Connection</i>	via 2 plugs, at the rear of the instrument
<i>Housing</i>	Box: Polycarbonate V0
<i>Dimensions</i>	W 96 mm x H 48 mm x D 53 mm
<i>Weight</i>	approx. 165 g
<i>equipment</i>	2 relays 2A - 250VAC (resistive charge)
<i>Analogoutput:</i>	1 output 0...10V (60000 points) - 1 output 0/4...20mA (60000 points)
<i>Serial communication</i>	RS485 Modbus RTU - Slave (1200...115200 Baud) galvanically isolated from power supply/Inputs/Outputs
<i>Datenlogging:</i>	The display includes a simple data logger function. The data can be accessed via Modbus Read log. The sampling rate corresponds to the activation time of the trend display. Up to a maximum of 2,500 readings can be logged.
<i>inkludet:</i>	Device, mounting material, seal, instruction manual

**Digital Tensile Force Indicating Instrument SA DMS 621**

Use of traction force gauge for D M S - measuring sensors of series M 11xx or LC 11xx..

Input voltage 0-20mV

stabilized for bridge supply 5V

**Digital Tensile Force Indicating Instrument SA DMS 621 - E**

Use of traction gauge for measuring sensors with built-in amplifier, series M 13xx or LC13XX...

Input voltage 0-10V

for sensors 24 VDC @ 35 mA