

Digital Tensile Force Indicating Instrument Series KT871-PAX



The KT871-PAX is a high precise digital tensile force programmable indicating instrument.

It is optimal suited for direct connection of Tensometric tensile force sensors: - with integrated amplifier (Series 3xx and 13xx, service voltage 24V)

- with strain gage measuring bridge (Series 11xx).

The operating mode can be selected by switch.

Big red digits, readable from afar, indicate the measuring results. Indicators show the actual working condition.

On the basis of the high solution and interference-stability, application is as well in rough production as in labs and testing departments.

For operation of the strain gage sensors, this instrument supplies the service-voltage. To work with sensors with strain-gage measuring bridge (Series M 11xx) supplies this instrument the service voltage of 5 V. This instrument amplifies the low output voltage of the measuring-bridge.

To work with the sensors with built-in amplifier (series 13xx or M3xx) this instrument supplies a service voltage of 24 V. The analog output signal of the sensor is supplied directly via connector.

Programming :

Easy programmable and easy to operate by means of the 5 front-panel buttons:

- Calibration of the indication by feeding of value-pairs.
- Calibration of the indication with connected sensors
- Linear-calibration with 16 value-pairs
- Locking the programme-function
- Individual getting-free of some programme-key-functions for the operator p.e.: reset the min-max-values
- 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, hysterese
- Adjusting the decimal-point
- external control is individual programmable
 - to reset the min-max storage
 - to reset the alarm-output
 - to * freeze * the indication
 - synchronize the indication with the course of production



Technical Data:

Display: Solution: Accuracy: Linearity:	14 mm high, red LED indication, 5 - digits 16 Bit 0,03% 0,03% of the range	
Protection according To DIN 40050:	IP 30	
Measuring cycle:	max. 20 / s	
Ambient temperature: Power supply: Connection outputs: Connection input: Housing: Dimensions DIN: Weight:	operating range : 0° up to + 50°C, storage-ran ge : -40°C up to +70°C 85 up to 250 VAC, 50 / 60Hz, 15 VA via plugs, at the rear of the instrument via plug, at the front of the instrument steel sheet, white coated W 255 mm x H 85 mm x D 164 mm approx. 1200 g	
Volume of delivery:	Instrument, output plugs, power cord, instruction manual	
Operating mode:	Tensile Force sensor sensor with strain gage bridge	
Utilization: Input: Output for bridge-excitation:	Tensile force indicating instrument for strain gage sensors, series11xx 1,5 mV/V 5 V, stable	
Operating mode:	Tensile force sensor with integrated amplifier	
Utilization: Input: Power supply for sensor	Tensile Force Indicating Instrument for sensors with integrated amplifier series x13xx or 3xx \pm 10V : 24 V, stable	

Optionen:

Additionally the instrument can be equipped with the offered options.

Each instrument can max. be equipped with one serial interface, one relay- or one open collector output and one analog output.

Relay – output:	dual setpoint relay 5 A @ 120/23 (resistive load), 80 W @ 120 V quad setpoint relay 3 A @ 250 V 80 W @i 120 V AC (inductive load	AC (inductive load) AC or 30 V DC (resistive load)	Type DS 10 Type DS 20
Serial communications	 Half-Duplex, RS232, programmal Multipoint RS 485, programmal Profibus-DP, programmable 		Type DC 20 Type DC 10 Type DC 50
Analog Output:	outputsignal can be selected : 0 compliance 500 Ohm load max.; E isolated from all other commons	20 mA, 4 mA20 mA, 0 10 V Digital direct reading, resolution 1/3500	Type DL 10
Open Collector:	Quad sinking open collector : type four isolated sinking NPN-transistors not isolated from all other commons rating :100 mA max. Vsat =0,7V, Vmax.= 30 V		Type DS 30
	Quad sourcing open collector : type four isolated sourcing PNP-transistors not isolated from all other commons. rating : internal supply 24 VDC +/-10%, 30 mA max. total all four outputs External supply : 30 V DC, 100 mA max. each output		Type DS 40
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