

## Digital Force Gauge for Terminal Connections

### SQS07-A



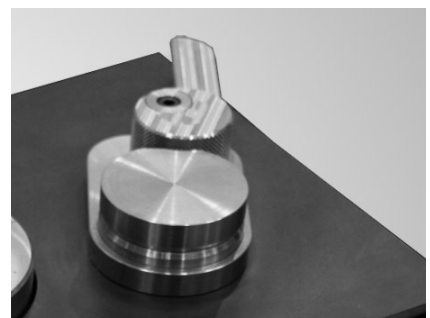
- simple operation with automatic peak value recording
- high accuracy and reproducibility
- solid construction for high durability
- USB 2.0 interface
- adaptor for all prevalent terminal types
- motorized pull with constant pull speed



simple operation



adaptor for terminal types



motorised version

# SQS07-A



### Description

This instrument is designed for measuring tensile strength of soldered or solder-free cable joints with end sleeves, pins, solder pins or similar wire terminal components in accordance with DIN, EN, BS, IEC, UL, SAE and MIL standards. Depending on the standard the constant pull speed is adjustable.

Test samples are inserted into the receptacle adaptor, which has 12 different slot widths (from 0.5 mm to 6.0 mm), covering all the prevalent wire diameter and terminal types.

Its very simple operation allows the users to acquire reliable and reproducible test results: the user inserts the wire terminal into the receptacle adaptor, and the open wire end into the combined clamp-pull device. After the protection cover has been closed, the motor starts. The wire will be fixed into position, and then constantly pulled.

Available pull modes:

- Pull and Break
- Pull and Hold (no-destructive test)
- Pull, Hold and Break

The traction force is collected at an accuracy of  $\pm 0,5\%$  and is shown on the display at a resolution of 1 N. The peak value, at which the cable is torn, will be automatically saved in the memory and can be compared with a limiting value.

Optional software allows easy and quick preparation of test reports with statistics and individual results using Microsoft Excel. This software is available in German, English, French, Spanish and Italian. This software can also be used to change the measurement range.

### Range of Application

The solid instrument is designed for quality control applications in laboratories and in production facilities.

## Technical Data

SQS07-A

<b>Supplies</b>	
Power Supply	AC-adapter 100 - 240 VAC (50/60 Hz)
Drive	electric drive for wire pulling
Pull-Off Speed	50 / 100 / 150 / 200 / 250 mm/min (adjustable)
Measuring Range	up to 1000 N by resolution of 1 N (optional up to 500 N by resolution of 0,5 N)
<b>Cable Thickness</b>	
Slot Widths Of Testing Adapter	0,5 / 0,8 / 1,0 / 1,3 / 1,5 / 2,0 / 2,5 / 3,0 / 3,5 / 4,0 / 5,0 / 6,0 mm
Clamping device	0.1 - 6.0 mm (continuously variable)
Range IEC 60352-2	AWG 8 - 30   0,05 - 10 mm <sup>2</sup>
Range SAE AS7928 II	AWG 12 - 28
<b>Accuracy</b>	
at 23°C (F.S.)	+/- 0.5 % (+/- 1/2 digit)
Tk (absolut)	automatic readjustment while starting
Tk (relativ)	+/- 0.02 % (°K)
<b>Operation Mode</b>	
Standard	displays the actual value in N / kgf / lbf
Peak	displays the peak value in N / kgf / lbf
Max. Admissible Overload	120 % (F.S.) / auto power-off
<b>Reaction Time</b>	
Standard	1000 / 500 / 333 / 200 / 100 ms (adjustable)
Peak	1 ms
Memory	Peak value (Peak)
Interface Capability	USB 2.0
Display	LCD, 4-digit, 12 mm high
<b>Design</b>	
Housing Material	anodised aluminium, surface tempered steel, stainless steel
<b>Temperature Range</b>	
Operation	10 - 40° C
Storage	0 - 60° C (rF < 80%)
<b>Dimensions &amp; Weight</b>	
W x D x H	350 x 160 x 110 mm
Weight	approx. 19 kg

## Sales and Service for Turkey



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