

KUST Elektronik Intelligent Test solutions

KUST's test and measurement solutions provide a comprehensive and versatile answer to all the challenges of today's technology. KUST is proud to offer unique and affordable test and measurement products that enable complete and uncompromising testing. The products are delivered immediately ready for use and guarantee a simple and stress-free testing.



SUPPORT:

Technical support before and after the sale for all products and applications. Unique products that are supported by extensive application knowledge. Service center in your country: calibration and repair.



CONSTRUCTION:

All products are tailored to the needs and requirements of the customers. With application knowledge, practical experience and knowledge of the test tasks, test solutions are created.



SALES NETWORK:

Fully trained and authorized sales network throughout Europe and the Middle East - a helping hand is never far away.



DEVELOPMENT:

A good technical understanding of today's test requirements allows KUST to introduce new features and new products. Special customer requirements are always considered.

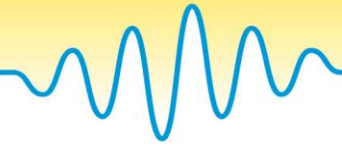
LCR METERS

HIGH VOLTAGE TESTERS

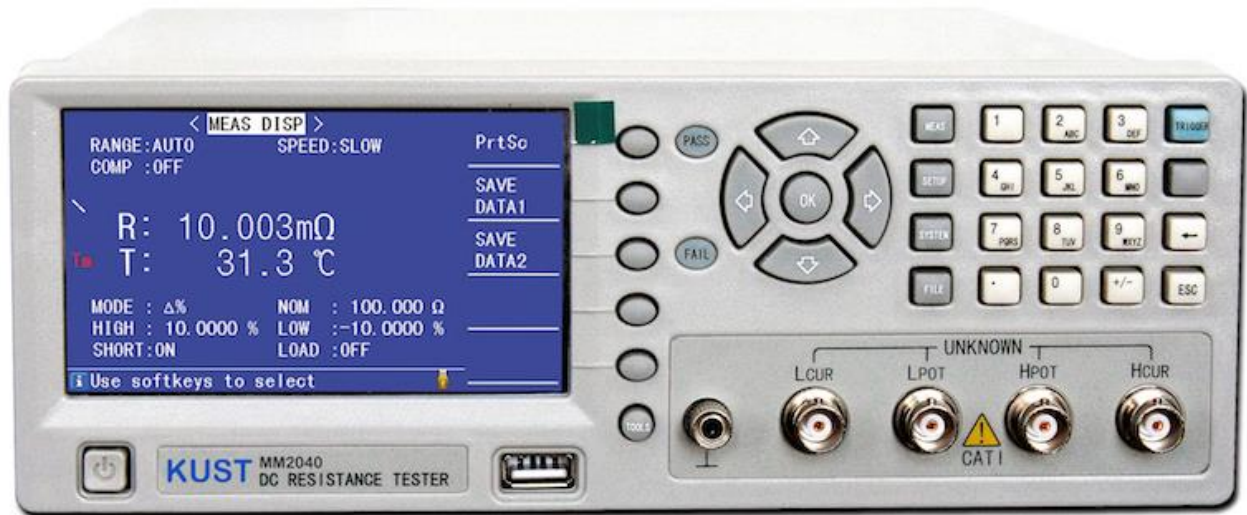
IMPULSE/SURGE

COMPONENTS TESTERS

MILLIOHM METERS



DC resistance measurement devices: KUST Elektronik:



KUST MM2040

DC resistance measuring devices from μOhm to Mohm

Resistance measurement with automatic temperature correction

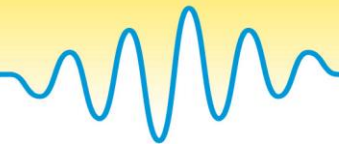
The combination of advanced technology and decades of experience allows KUST to offer products for every application and need of the customer.

We have DC resistance meters for every need and every application.

Advanced and high-precision resistance measurement technology.

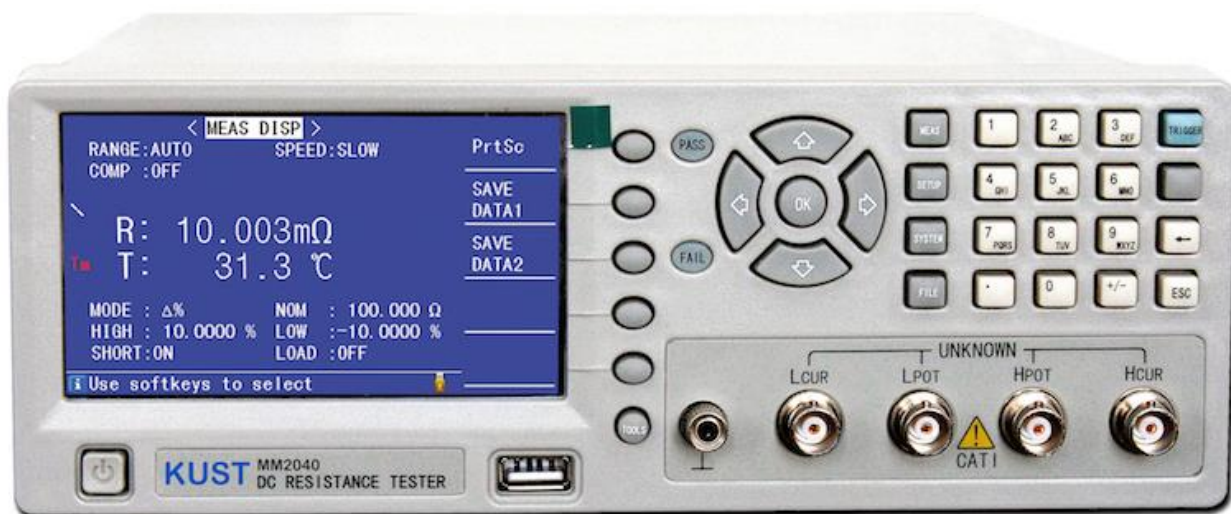
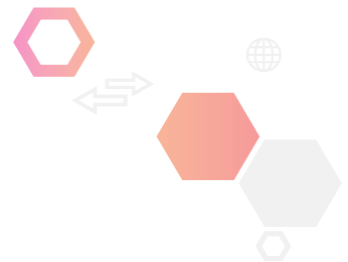
MM2010	MM2020	MM2030	MM2040
7 measuring ranges	9 measuring ranges	7 measuring ranges	10 measuring ranges
4 wires measurement	4 wires measurement	temperature correction	temperature correction
High contrast LCD display	High contrast LCD display	Temp. Base accuracy 0.1 °C	Temp. Base accuracy 0.1 °C





DC resistance measurement devices:

**MM2010, MM2020,
MM2030 & MM2040**

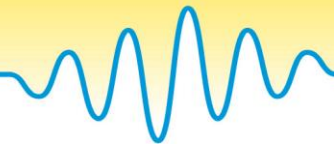


Features:

MM2010:	10μΩ ~ 200kΩ	
MM2020	1μΩ ~ 2MΩ	
MM2030	10μΩ ~ 200kΩ	Temperaturkompensation / -Korrektur
MM2040	1μΩ ~ 10MΩ	Temperaturkompensation /-Korrektur

- Up to 55 measurements / sec.
- 480 x 272 pixels TFT LCD display with 24-bit color depth.
- Display measured value or % deviation
- Basic accuracy 0.05% + 2 digits
- Interface Standard: Handler, USB Host, USBDCD, USBTMC, Optional GPIB, RS232.
- LED Display of result **Green** - PASS / **Red** - FAIL
- Acoustic signal - result confirmation
- Trigger function: internal, external
- Internal memory for 100 device settings / 500 external settings

The devices of the MM20X0 series are new precision DC resistance measuring instruments combined with many years of technical experience and new measuring technology. With powerful measurement capabilities, high performance and low cost, the MM20X0 devices are among the world's most advanced devices at a very low cost. The measuring instruments offer a stable 5-digit resolution, a measuring rate of up to 55 measurements / sec., And up to 10 measuring ranges, user-friendly user interface. The MM20X0 can be used for in-feed inspection of components, quality control in the product line or high-precision laboratory use. The interfaces HANDLER, USB and optional GPIB and RS232C facilitate the setup of an automatic test system. The USB host interface allows fast data storage for further measurements



Resistance meter: MM2010 & MM2020

Measurement accuracy and function	
R basic accuracy	0,05% + 2 digits
MM2010	10 $\mu\Omega$ - 200k Ω
MM2020	1 $\mu\Omega$ - 2M Ω
Measurement speed	Bei 50Hz Fast: 22ms, Med: 42ms, Slow: 102ms; Bei 60Hz: Fast: 18.5ms, Med: 35ms, Slow: 102ms
Range mode	Automatic, hold, manually selected
Trigger	Internal and external
Averaging	1-255
Delay Time	0 - 9999ms, with 1ms step
Calibration function	Short correction, zero, load correction
Test configuration	Four-terminal
Display mode	Direct reading in $\Delta\%$
Range (test current): Test Range	
MM2010 (10 $\mu\Omega$ - 200k Ω)	200m Ω (100mA): 10 $\mu\Omega$ - 200m Ω 2 Ω (100mA): 200m Ω - 2 Ω 20 Ω (10mA): 2 Ω - 20 Ω 200 Ω (1mA): 200 Ω - 200 Ω 2k Ω (100 μ A): 200 Ω - 2k Ω 20k Ω (100 μ A): 2k Ω - 20k Ω 200k Ω (10 μ A): 20k Ω - 200k Ω
MM2020 (1 $\mu\Omega$ - 2M Ω)	20m Ω (1A): 1 $\mu\Omega$ - 20m Ω 200m Ω (100mA): 20m Ω - 200m Ω 2 Ω (100mA): 200m Ω - 2 Ω 20 Ω (10mA): 2 Ω - 20 Ω 200 Ω (1mA): 20 Ω - 200 Ω 2k Ω (100 μ A): 200 Ω - 2k Ω 20k Ω (100 μ A): 2k Ω - 20k Ω 200k Ω (10 μ A): 20k Ω - 200k Ω 20k Ω (100 μ A): 2k Ω - 20k Ω 2M Ω (1 μ A): 200k Ω - 2M Ω
Comparators	
Sorting	HI, LO, IN
Other	
Monitor	480 x 272 Pixel TFT LCD 24-Bit-True-Color
Memory	100 internal storage locations, 500 on the USB hard drive
Interface	Standard HANDLER, USB HOST, USBCDC, USBTMC, optionale GPIB, RS232C interface

Bestellinformation:

MM2010 Resistance meter
MM2020 Resistance meter

Standard Interfaces:
HANDLER, USB HOST, USBCDC,
USBTMC
Interfaces optional:
GPIB, RS232C Interface

INCLUDED IN DELIVERY ARE:

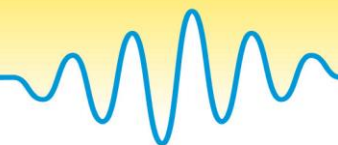
KA1002 4-Leiter-Kelvin Prüfkabel
Netzkabel
Prüfzertifikat
USB-Speicher



Optional:
KA1001: Terminal Test Fixture (semi-Kelvin)
KA1007: SMD Test Tweezers
KA1027: Foodswitch

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Widerstandsmessgeräte: MM2030 & MM2040

Measurement accuracy and function	
R basic accuracy	0,05% + 2 digits (2MΩ range is 0,2%, 10 M range is 0,3%)
Measurement speed	Bei 50Hz Fast: 22ms, Med: 42ms, Slow: 102ms; Bei 60Hz: Fast: 18.5ms, Med: 35ms, Slow: 102ms
Statistical functions	For CpK, Cp and other statistics
Range mode	Automatic, hold, manually select
Trigger	Internal and external
Averaging	1-255
Delay time	0 - 9999ms, mit 1ms step
Calibration function	Short correction, zero, load correction
Test side configuration	Four-terminal
Display mode	Direct reading Δ%
Range and test current	
MM2040 (10μΩ - 200kΩ)	200mΩ (100mA): 10μΩ - 200mΩ 2Ω (100mA): 200mΩ - 2Ω 20Ω (10mA): 2Ω - 20Ω 200Ω (1mA): 20Ω - 200Ω 2kΩ (100μA): 200Ω - 2kΩ 20kΩ (100μA): 2kΩ - 20kΩ 200kΩ (10μA): 20kΩ - 200kΩ
MM2030 (1μΩ - 10MΩ)	20mΩ (1A): 1μΩ - 20mΩ 200mΩ (100mA): 20mΩ - 200mΩ 2Ω (100mA): 200mΩ - 2Ω 20Ω (10mA): 2Ω - 20Ω 200Ω (1mA): 20Ω - 200Ω 2kΩ (100μA): 200Ω - 2kΩ 20kΩ (100μA): 2kΩ - 20kΩ 200kΩ (10μA): 20kΩ - 200kΩ 20kΩ (100μA): 2kΩ - 20kΩ 200kΩ (10μA): 20kΩ - 200kΩ 2MΩ (1μA): 200kΩ - 2MΩ 10MΩ (100mA): 2MΩ - 10MΩ
Comparators	
Sorting	HI, LO, IN
Temperature Measurement	
Basic Accuracy	0.1 °C
Measuring time	100 ± 10 ms
Temperature Sensor	Pt, measuring range -10,0 ° C - 99,9 ° C
	Analog input: 0 - 2V, the range of -99,9 ° C - 999,9 ° C
Temperature compensation function	Conversion to the resistance value of the set temperature
Temperature conversion function	Changes in the resistance value are converted to a temperature change amount
Other	
Monitor	480 x 272 Pixel TFT LCD 24-Bit-True-Color
Memory	More than 100 sets of internal storage, U disk and more than 500 groups
Interface	Standard HANDLER, USB HOST, USBCDC, USBTMC, optional GPIB, RS232C interface

Bestellinformation:

MM2030 Widerstandsmessgerät
MM2040 Widerstandsmessgerät

Standardschnittstellen:
HANDLER, USB HOST, USBCDC, USBTMC
Schnittstellen optional:
GPIB, RS232C Schnittstelle

IM LIEFERSUMFANG SIND
ENTHALTEN:

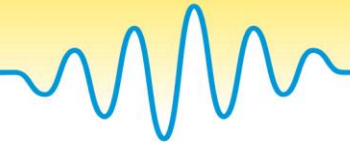
KA1002 4-Leiter-Kelvin Prüfkabel
Netzkabel
Prüfzertifikat
USB-Speicher



Optional:
KA1001: Terminal Prüfadapter
KA1007: SMD-Testpinzette
KA1027: Fußschalter

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