

Product Datasheet - Technical Specifications



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R&S®UDS DIGITAL MULTIMETERS

Built for accuracy, designed for ease



The R&S®UDS family of compact digital multimeters is engineered for both general purpose and production line environments. Renowned for versatility and precision, the multimeters can simultaneously display three measurement functions, streamlining test workflows. Beyond the standard 12 measurement functions, the multimeters have built-in statistical and mathematical functions and an intuitive user interface for smooth and efficient testing.

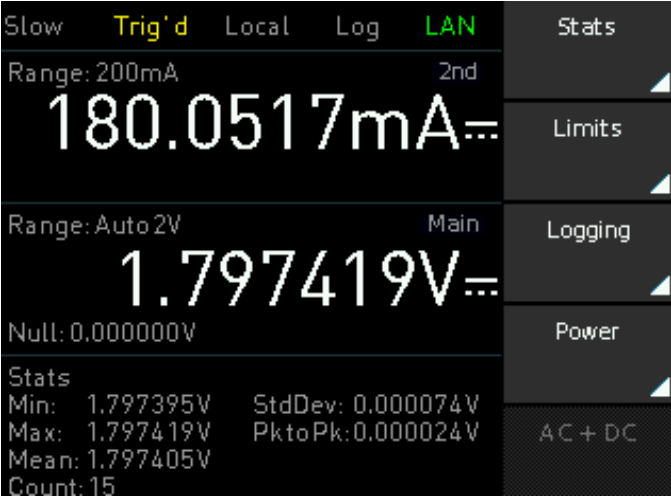
Ideal for:	
Engineering lab	General purpose
Production testing	Education

Key specifications	
Measurement range	DC to 100 kHz
Digit resolution	up to 6½ digits
Basic DC accuracy	0.0075 %
Resolution	100 nV, 10 nA, 0.1 mΩ, 0.1 pF, 1 Hz, 0.1 °C
Reading rate	up to 200 readings/s
Measurement counts	up to 2 000 000 counts

Your benefit	Features of the R&S®UDS
See more at a glance	▶ Simultaneous display of three measurements (DC, AC and statistics) ▶ QVGA color display for excellent readability ▶ Limit testing directly on the display for easy minimum/maximum analysis
Versatile functions	▶ Mathematic functions ▶ Built-in statistics ▶ Two-wire and four-wire measurements ▶ Limit testing
Remote controllability	▶ Remote control with SCPI based commands ▶ Ethernet interface (LAN) with integrated web server ▶ Driver packages

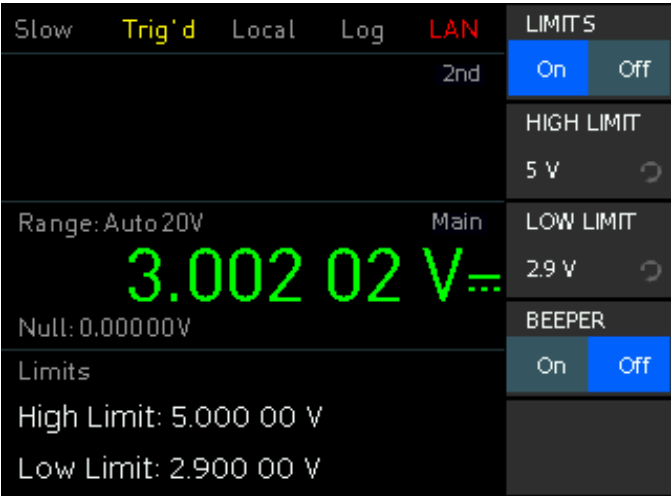
Simultaneous measurement display

Simultaneous display of three measurements, including DCI and ACI at the same time



Limit testing

Programmable test functions ideal for minimum and maximum analyses



Ideal for industrial environments

Easily fits into the R&S®HVC95 19" rackmount kit for production environments



Designation	Type
Base unit	
Digital multimeter, 5½	R&S®UDS500
Digital multimeter, 5½, with GPIB interface	R&S®UDS500-G
Digital multimeter, 6½	R&S®UDS600
Digital multimeter, 6½, with GPIB interface	R&S®UDS600-G
Accessories	
Silicon test lead, banana to banana, length: 1 m (set of 5, color: blue)	R&S®HZ10B
Silicon test lead, banana to banana, length: 1 m (set of 5, color: red)	R&S®HZ10R
Silicon test lead, banana to banana, length: 1 m (set of 5, color: black)	R&S®HZ10S
System components	
19" rack adapter, 2 U, for R&S®NGE100B/NGC100/NPA/UDS and R&S®HMC series	R&S®HVC95

APPLICATIONS

- General purpose
- Engineering lab
- Production environment