

## DIGITAL MULTIMETER SERIES 200xx

### FEATURES

- Compact housing
- Large LCD-Display
- Full portfolio; Basic to professional devices
- Full range of functions
- High safety, CAT IV / 300 V; CAT III / 600 V  
20037: CAT IV / 1000 V
- Ceramic fuses



### TECHNICAL DATA

Model	20019	20020	20031	20032	20035	20036	20037	
Display	LCD, 1999 Digits	LCD, 1999 Digits	LCD, 3999 Digits	LCD, 3999 Digits	LCD, 5999 Digits + bargraph	LCD, 5999 Digits + bargraph	LCD, 5999 Digits + bargraph	
AC/DC Voltage	600V	600V	600V	1000V	600V	1.000V	1.000V	
AC/DC Current	10A	10A	10A	10A	10A	10A	600µA	
µA-Measurement	–	–	–	●	●	●	●	
Resistance	1.999 MΩ	1.999 MΩ	39.99 MΩ	39.99 MΩ	59.99 MΩ	59.99 MΩ	59.99 MΩ	
Continuity test	< 30 Ω with audible signal	< 30 Ω with audible signal	< 50 kΩ with audible signal	< 50 Ω with audible signal	< 30 Ω with audible signal	< 30 Ω with audible signal	< 30 Ω with audible signal	
Diode test	< 1 V with audible signal	< 1V with audible signal	< 1.5 V	< 1.5 V	< 2.8 V	< 2.8 V	< 2.5 V	
Frequency	–	–	5 MHz	5 MHz	60 MHz	60 MHz	60 MHz	
Capacity	–	–	100 µF	100 µF	60 mF	60 mF	60 mF	
Temperature	–	-40...400°C	-20...500°C	-20...500°C	-200...1.350°C	-200...1.350°C	–	
Autorange	–	–	●	●	●	●	●	
TRMS	–	–	–	–	●	●	●	
Duty cycle	–	–	0.1...99%	0.1...99%	–	–	–	
Data hold	–	–	●	●	●	●	●	
Relative value measurement	–	–	●	●	●	●	●	
Min./Max./Avg.	–	–	–	–	●	●	●	
Backlight	–	–	–	●	●	●	●	
NCV	–	–	–	–	●	●	–	
Battery test	–	1,5 V / 9 V	–	–	–	–	–	
Overvoltage category	CAT IV / 300 V, CAT III / 600 V						CAT IV / 1000 V	
In compliance with	EN 61010-1, EN 61010-2-033, EN 61010-031							
Protection degree	IP 40							
Certification	CE							
Battery	2 x 1,5 V / AAA							
Dimension (approx.)	145 x 75 x 40 mm			165 x 80 x 55 mm				
Weight (approx.)	250 g			350 g				

## MULTIMETER 20019



### FEATURES

- Basic model
- Compact housing
- AC/DC voltage measurement up to 600 V
- AC/DC current measurement up to 10 A
- Resistance measurement up to 2 MΩ
- Large LCD display
- High safety, CAT IV / 300 V; CAT III / 600 V
- Ceramic fuses

### SCOPE OF SUPPLY

- 1 pc HDT 20019
- 2 pc Batteries 1,5V / AAA
- 2 pc Test Leads
- 1 pc Instruction manual
- 1 pc Carton packaging

#### Optional:

- Protective holster
- Carrying case

### TECHNICAL DATA

Model	20019
Display	LCD, 1999 Digits
AC/DC Voltage	600 V $\pm$ (1% + 3D*)
AC/DC Current	600 V $\pm$ (0,8% + 3D*)
Resistance	10 A $\pm$ (1,5% + 5D*)
Continuity test	10 A $\pm$ (1,0% + 5D*)
Diode test	1.999 MΩ $\pm$ (1,5% + 3D*)
Overvoltage category	< 30 Ω with audible signal
In compliance with	< 1 V with audible signal
Protection degree	CAT IV / 300 V, CAT III / 600 V
Certification	EN 61010-1, EN 61010-2-033, EN 61010-031
Battery	IP 40
Dimension (approx.)	CE
Weight (approx.)	2 x 1,5 V / AAA
Abmessungen (ca.)	145 x 75 x 40 mm
Gewicht (ca.)	250 g

\*basic accuracy

## MULTIMETER 20020



### FEATURES 20020

- Manual range selection
- Overvoltage protection CAT IV / 300 V, CAT III / 600 V
- Easy to read LCD display
- AC/DC voltage measurement and current measurement
- Current circuits protected with 6,3 x 32 ceramic fuse
- Resistance and temperature measurement
- Battery test under load, high voltage protection
- Diode test with additional audible signal
- Continuity test with audible signal
- Two soft silicone test leads with probes
- Soft plastic holster absorbs shocks and improves the grip

### SCOPE OF SUPPLY

- 1 pc. HDT 20020
- 2 pcs. Batteries 1,5V / AAA
- 2 pcs. Test leads
- 1 pc. Thermocouple
- 1 pc. Holster
- 1 pc. Instruction manual
- 1 pc. Carton packaging

#### Optional:

- 1 pc Carrying case

### TECHNICAL DATA

Model	20020
Display	LCD, 1999 Digits
AC Voltage	600 V $\pm$ (1% + 3D*)
DC Voltage	600 V $\pm$ (0,8% + 3D*)
AC Current	10 A $\pm$ (1,5% + 5D*)
DC Current	10 A $\pm$ (1,0% + 5D*)
Resistance	1.999 M $\Omega$ $\pm$ (1,5% + 3D*)
Continuity test	< 30 $\Omega$ with audible signal
Diode test	< 1V with audible signal
Temperature	-40...400°C $\pm$ (1,0% + 10D*)
Battery test	1,5 V / 9 V
Overvoltage category	CAT IV / 300 V, CAT III / 600 V
In compliance with	EN 61010-1, EN 61010-2-033, EN 61010-031
Protection degree	IP 40
Certification	CE
Battery	2 x 1,5 V / AAA
Dimensions (approx.)	145 x 75 x 40 mm
Weight (approx.)	250 g

\*basic accuracy

## MULTIMETER 20031/20032



### FEATURES 20031

- Autoranging
- AC/DC voltage measurement up to 600 V
- AC/DC current measurement up to 10 A
- Resistance measurement up to 40 MΩ
- Frequency measurement up to 5 Mhz
- Capacity measurement up to 100 μF
- Temperature measurement up to 500°C
- Duty Cycle and relative value measurement
- Data Hold function
- Large LCD-Display
- High safety, CAT IV / 300 V, CAT III / 600 V
- Ceramic fuses

### FEATURES 20032

as 20031, but in addition:

- AC/DC voltage measurement up to 1000 V
- μA measurement
- Display with backlight

### TECHNICAL DATA

Model	20031	20032
Display	LCD, 3999 Digits	LCD, 3999 Digits
AC Voltage	600 V ± (1,0% + 3D*)	1000V ± (1,0% + 3D*)
DC Voltage	600 V ± (0,5% + 3D*)	1000V ± (0,5% + 3D*)
ACC Current	10 A ± (1,2% + 3D*)	10A ± (1,2% + 3D*)
DC Current	10 A ± (1,0% + 3D*)	10A ± (1,0% + 3D*)
μA-Measurement	–	●
Resistance	39.99 MΩ ± (1,0% + 3D*)	39.99 MΩ ± (1,0% + 3D*)
Continuity check	< 50 kΩ with audible signal	< 50 Ω with audible signal
Diode test	< 1.5 V	< 1.5 V
Frequency	5 MHz ± (0,1% + 1D*)	5 MHz ± (0,1% + 1D*)
Capacity	100 μF ± (1,5% + 5D*)	100 μF ± (1,5% + 5D*)
Temperature	-20...500°C ± (1,0% + 8D*)	-20...500°C ± (1,0% + 8D*)
Autorange	●	●
Duty cycle	0.1...99%	0.1...99%
Data hold	●	●
Relative value measurement	●	●
Backlight	–	●
Overvoltage category	CAT IV / 300 V, CAT III / 600 V	CAT IV / 300 V, CAT III / 600 V
In compliance with	EN 61010-1, EN 61010-2-033 EN 61010-031	EN 61010-1, EN 61010-2-033 EN 61010-031
Protection degree	IP 40	IP 40
Certification	CE	CE
Battery	2 x 1,5 V / AAA	2 x 1,5 V / AAA
Dimensions (approx.)	165 x 80 x 55 mm	165 x 80 x 55 mm
Weight (approx.)	350 g	350 g

\*basic accuracy

### SCOPE OF SUPPLY

- 1 pc HDT 20031 or 20032
- 2 pcs Batteries 1,5V / AAA
- 2 pcs Test leads
- 1 pc Thermocouple
- 1 pc Holster
- 1 pc Instruction manual
- 1 pc Carton packaging

#### Optional:

- 1 pc Carrying case
- 1 pc Magnetic hanger (for holster)

## MULTIMETER 20035/20036



### SCOPE OF SUPPLY

- 1 pc HDT 20035 or 20036
- 2 pcs Batteries 1,5V / AAA
- 2 pcs Test leads
- 1 pc. Thermocouple
- 1 pc. Holster
- 1 pc. Instruction manual
- 1 pc. Carton packaging

#### Optional:

- 1 pc Carrying case
- 1 pc Magnetic hanger (for holster)

### FEATURES 20035

- Autoranging and True RMS measurement
- AC/DC voltage measurement up to 600 V
- AC/DC current measurement up to 10 A
- $\mu$ A measurement and Resistance measurement up to 60 M $\Omega$
- Frequency measurement up to 60 Mhz
- Capacity measurement up to 60 mF
- Temperature measurement up to 1.350°C
- Min./Max./Avg., Duty Cycle and relative value measurement
- Data Hold function and large LCD-Display with bargraph and backlight
- Non-contact voltage detection
- High safety, CAT IV / 300 V, CAT III / 600 V
- Ceramic fuses

### FEATURES 20036

as 20035, but in addition:

- AC/DC voltage measurement up to 1000 V

### TECHNICAL DATA

Model	20035	20036
Display	LCD, 5999 Digits + bargraph	LCD, 5999 Digits + bargraph
AC Voltage	600V $\pm$ (1,0% + 3D*)	1000 V $\pm$ (1,0% + 3D*)
DC Voltage	600V $\pm$ (0,5% + 3D*)	1000 V $\pm$ (0,5% + 3D*)
AC Current	10 A $\pm$ (1,2% + 3D*)	10 A $\pm$ (1,2% + 3D*)
DC Current	10 A $\pm$ (1,0% + 3D*)	10 A $\pm$ (1,0% + 3D*)
$\mu$ A-Measurement	●	●
Resistance	59.99 M $\Omega$	59.99 M $\Omega$
Continuity check	< 30 $\Omega$ with audible signal	< 30 $\Omega$ with audible signal
Diode test	< 2.5 V	< 2.5 V
Frequency	60 MHz $\pm$ (1,0% + 1D*)	60 MHz $\pm$ (1,0% + 1D*)
Capacity	60 mF $\pm$ (1,5% + 5D*)	60 mF $\pm$ (1,5% + 5D*)
Temperature	-200...1.350°C $\pm$ (1,0% + 8D*)	-200...1.350°C $\pm$ (1,0% + 8D*)
Autorange	●	●
TRMS	●	●
Data hold	●	●
Relative value measurement	●	●
Min./Max./Avg.	●	●
Backlight	●	●
NCV	●	●
overvoltage category	CAT IV / 300 V, CAT III / 600 V	CAT IV / 300 V, CAT III / 600 V
In compliance with	EN 61010-1, EN 61010-2-033, EN 61010-031	EN 61010-1, EN 61010-2-033, EN 61010-031
Protection degree	IP 40	IP 40
Certification	CE	CE
Battery	2 x 1,5 V / AAA	2 x 1,5 V / AAA
Dimensions (approx.)	165 x 80 x 55 mm	165 x 80 x 55 mm
Weight (approx.)	350 g	350 g

\*basic accuracy

## DIGITALE MULTIMETER 20037

CAT IV / 1000 V



### FEATURES 20037

- Automatic range selection
- True RMS
- AC voltage measurement up to 1000V
- DC voltage measurement up to 1500V
- $\mu$ A measurement
- Resistance measurement up to 60 M $\Omega$
- Frequency measurement up to 60 Mhz
- Capacity measurement up to 60 mF
- Min./Max./Avg., Duty Cycle and relative measurement
- Data Hold
- Large LCD-Display with bargraph and backlight
- High safety, CAT IV / 1000 V

### SCOPE OF SUPPLY

- 1 pc HDT 20037
- 2 pc Batteries 1,5V / AAA
- 2 pc Test Leads
- 1 pc Holster
- 1 pc Instruction manual
- 1 pc Carton packaging

#### Optional:

- 1 pc Carrying bag
- 1 pc Magnetic hanger (for holster)

### TECHNICAL DATA

Model	20037
Display	LCD, 5999 Digits + bargraph
AC Voltage	1.000V $\pm$ (1,0% + 3D*)
DC Current	1.500V $\pm$ (1,0% + 3D*)
$\mu$ A measurement	●
Resistance	59.99 M $\Omega$
Continuity test	< 30 $\Omega$ with audible signal
Diode test	< 2.5 V
Frequency	60 MHz $\pm$ (1,0% + 1D*)
Capacity	60 mF $\pm$ (1,5% + 5D*)
Autorange	●
TRMS	●
Data hold	●
Relative measurement	●
Min./Max./Avg.	●
Backlight	●
Overvoltage category	CAT IV / 1000 V
In compliance with	EN 61010-1, EN 61010-2-033, EN 61010-031
Protection degree	IP 40
Certification	CE
Battery	2 x 1,5 V / AAA
Dimension (approx.)	165 x 80 x 55 mm
Weight (approx.)	350 g