

## Specificaties DO20

### Display:

Size	76 mm x 76 mm (3" x 3")
Pixels	240 x 240 pixels
LCD type	STN Normally Gray or Black
Back Light	CCFL

### Memory:

Waveform	Screens (2)
Setup	User setup (1)

### Power:

External	Power Adapter (5,5 V/2 A)
Internal Battery	Ni-MH 1,2 V x 4
Battery Operating Time	More than 2,5 hours with bright backlight
Charging Time	10 hours

## SCOPE MODES

### Horizontal:

Samples per division	25 samples/div.	
Time/division	Equivalent sampling	50 ns to 500 ns/div
Real time sampling	1 us to 2 s/div	
Modes	Single, Normal, Auto, Glitch	
Accuracy	Real time sampling	+/- (0,1% + 0,04 time/div)
	Equivalent sampling	+/- (0,5% + 0,08 time/div)

### Vertical:

Sampling Rate	25 Mega samples per second		
Bandwidth	DC Coupled	1:1 shielded test leads	DC to 10 MHz
		10:1 probe	DC to 20 MHz
	AC Coupled	1:1 shielded test leads	10 Hz to 10 MHz
		10:1 probe	10 Hz to 20 MHz
Resolution	8 bits		
Channel	2		
Coupling	AC, DC, GND		
Input impedance	Approx. 1 MOhm		
Sensitivity	50 mV to 200 V/div 1, 2, 5 sequence		
Accuracy	+/- (3% + 0,05 range/div)		
Display modes	CH1, Dual		
Maximum Input Voltage	600 V		

### Trigger:

Position	Ver 1; Fixed Position	Ver 3; Adjustable Position
Mode	Free run, normal	
Source	Internal (CH1/CH2)	
Slope	Positive/Negative	
Sensitivity	Real time sampling	.... 2 divisions or more
	Equivalent sampling	.... 3 divisions or more

**Trend Plot:**

Plot Time	30 sec/div to 1 hour/div
Plot Data Type	Max/Min Selectable

**Temperature measurement:**

Optional Adapter	TA20 (k - Type thermocouple)
Range	-40 F to 500 F
Accuracy	+/- (1,5% + 5 digits)

**Pressure/Vacuum measurement:**

Optional Adapter	DA20
Range	Pressure 500 psi Vacuum 30 inHg
Accuracy	Pressure +/- (5% + 5 digits) Vacuum +/- (1,5% + 5 digits)

**Current Measurement Optional Adapter 1:**

Optional Adapter	SA02 (AC AMPS)
Range	0 – 40 A/40 – 400 A
Accuracy	(0 – 40 A) +/- (2,0% + 10 digits, 50/60 Hz) (40 – 400 A) +/- (2,0% + 10 digits, 50/60 Hz)

**Current Measurement Optional Adapter 2:**

Optional Adapter	SA04 (AC/DC AMPS)
Range	0 – 40 A/40 – 400 A
Accuracy	(0 – 40 A) +/- (2,0% + 10 digits, 50/60 Hz) (40 – 400 A) +/- (2,0% + 10 digits, 50/60 Hz)

**Current Measurement Optional Adapter 3:**

Optional Adapter	SA10 (AC/DC AMPS)
Range	0 – 400 A/400 – 1000 A
Accuracy	(0 – 400 A) +/- (2,0% + 10 digits, 50/60 Hz) (400 – 1000 A) +/- (2,0% + 10 digits, 50/60 Hz)

**MULTIMETER MODES****DC Volts (CH1/CH2)**

Range	Resolution	Accuracy
400 mV	0,1 mV	+/- (0,5% + 5 digits)
4 V	0,001 V	+/- (0,5% + 5 digits)
40 V	0,01 V	+/- (0,5% + 5 digits)
400 V	0,1 V	+/- (0,5% + 5 digits)
600 V	1 V	+/- (0,5% + 5 digits)

<b>AC Volts (CH1/CH2)</b>		
<b>Range</b>	<b>Resolution</b>	<b>Accuracy</b>
400 mV	0,1 mV	20 Hz to 50 Hz; +/- (2% + 20 digits)
4 V	0,001 V	50 Hz to 1 kHz; +/- (1% + 10 digits)
40 V	0,01 V	1 kHz to 20 kHz; +/- (2% + 10 digits)
400 V	0,1 V	40 Hz to 400 Hz; +/- (1% + 10 digits)
600 V	1 V	40 Hz to 400 Hz; +/- (1% + 10 digits)

<b>Frequency (CH1/CH2)</b>		
<b>Range</b>	<b>Resolution</b>	<b>Accuracy</b>
100 Hz	0,01 Hz	+/- (1,0% + 10 digits)
1 kHz	0,1 Hz	+/- (0,5% + 5 digits)
10 kHz	1 Hz	+/- (0,5% + 5 digits)
100 kHz	10 Hz	+/- (0,5% + 5 digits)
1 MHz	100 Hz	+/- (0,5% + 5 digits)
10 MHz	1 kHz	+/- (0,5% + 5 digits)
20 MHz	10 kHz	+/- (2,5% + 5 digits)

<b>OHM (CH1 ONLY)</b>		
<b>Range</b>	<b>Resolution</b>	<b>Accuracy</b>
400 Ohm	0,1 Ohm	+/- (0,75% + 5 digits)
4 kOhm	1 Ohm	+/- (0,5% + 5 digits)
40 kOhm	10 Ohm	+/- (0,5% + 5 digits)
400 kOhm	100 Ohm	+/- (0,5% + 5 digits)
4 MOhm	1 kOhm	+/- (1,0% + 10 digits)
20 MOhm	10 kOhm	+/- (3,0% + 20 digits)

<b>Continuity (CH1 ONLY)</b>		
<b>Range</b>	<b>Resolution</b>	<b>Accuracy</b>
4 kOhm	1 Ohm	Beeps < 0,1 kOhm, +/- (2% + 5 digits)

<b>Diode (CH1 ONLY)</b>		
<b>Range</b>	<b>Resolution</b>	<b>Accuracy</b>
4 V	1 mV	Open circuit voltage < 5 V Short circuit current < 5 mA Reading accuracy; +/- (2% + 5 digits)