Specificaties VK06

General specifications	
Safety Conformance	Safety Designed for measurements on Cat III - 600V rms industrial power systems with inclued test leads
True RMS	Needs to accurately measure non-sinusoidal AC voltage and Current waveforms
Auto Set	Sets up the scope based on the magnitude of the signal being measured
Real Time Update	Tracks events as they happen
Glitch Capture	Finds spikes in signals
Relative mode	LCD displays the difference between the measured value and the stored value
Trend mode	Graphs signals th find problems with circuits
Compare mode	Compares stored value with measured value for matching components
Relative % mode	Displays measured value as a percentage of stored value for checking componet tolerances
RS232 Output	Transfers data directly to a PC wihle measuring
Back Light	Allows viewing in any light condition

IEC1010 Over Voltage	CAT. II 1000V, CAT.III 600V, Pollution Degree 2

Display type	Super-twist LCD, 160 X 240 pixels
Operating temp	0 to 50 °C (32 to 122 °F)
Storage temp	-20 to 60 °C (-4 to 140 °F)
Relative humidity	0% to 80% : 0 °C to 35 °C(32 °F to 95 °F) 0% to 70% : 35 °C to 50 °C(95 °F to 122 °F)
Temp. Coefficient	0.1 X (Specified Accuracy) per °C for temperature < 18 °C to > 28 °C
Power requirements	Nicad Battery 7.2V, AA Cell X 6
Battery Life Time	3.5 Hours with backlight
Batter Operating time	3 Hours
Size(H x L x W)	52 x 220 x 100 (mm)
Weight	1lb. 6 oz

Oscilloscoop functies

Horizontal	
Sample Rate	20 Megasamples /second
Record Length	256 in all modes
Samples / Division	20 dot(pixels)
Update rate	Real time
Modes	Single shot
Accuracy	±0.01%
Sweep Rate	1us to 1s in 1,2,5 sequence

Triggering	
Type	Internal
Coupling	AC, DC, Glitch Caputre
Slope	+ or - edge
Internal Trigger Sensitivity	2/20 Division

Vertical	
Bandwidth	1MHz
Resolution	8Bits
Channels	Single
Coupling	Ac, Dc
Input Impedance	1.11Mohm
Accuracy	±3%
MAX. Input Volts	1000 Vp-p

Other	
Glitch Capture	Over 0.05 Horizontal division, 0.25 Vertical division spike. Minimum time 1us
Digital Trigger Delay Time	0-512 Samples

Trend mode	
Time interval	1, 2, 5, 10, 15, 30, 45 seconds or 1, 2, 3 minutes
Total time	2 minutes (by 1 second), 4 minutes (by 2 seconds), 10 minutes (by 5 seconds), 20 minutes (by 10 seconds), 30 minutes (by 15 seconds), 60 minutes (by 30 seconds), 90 minutes (by 45 seconds), 2 hours (by 1 minute), 4 hours (by 2 minutes), 6 hours (by 3 minutes)
Range	Auto range

Multimeter functies

DCV			
Range	**Resolution**	**Accuracy**	**Impedance**
400mV	0.1mV	±0.3% ±2	more than 100Mohm
4V	0.001V		10Mohm
40V	0.01V		
400V	0.1V		
1000V	1V		

ACV (20Hz to 50Hz)			
Range	**Resolution**	**Accuracy**	**Impedance**
300mV	0.1mV	±1.5% ±10	1.11Mohm
3V	0.001V		
30V	0.01V		
300V	0.1V		
750V	1V		
* NOTICE : Digit fluctuates at AC 20Hz~40Hz range. for 1~2 minutes after input.			

ACV (50H to 1KHz, 1KHz to 10KHz)			
Range	**Resolution**	**Accuracy**	**Impedance**
300mV	0.1mV	±0.75% ±10	1.11Mohm
3V	0.001V		
30V	0.01V		
300V	0.1V		
750V	1V	N/A for 1KHz to 10KHz	

ACV (10KHz - 30KHz,30KHz - 100KHz,100KHz - 200KHz)					
Range	Resolution	Accuracy			Impedance
		10-30KHz	30-100KHz	100-200KHz	
3V	0.001V	±2.5% ±30	±4% ±200	±10% ±300	1.11Mohm
30V	0.01V				
300V	0.1V				
750V	1V	Unspecified			

Diode Test		
Test Voltage	Max Test Current	Over Load Protection
3V	Approx. 2.5mA	600V DC or Peak AC

DCA			
Range	Resolution	Accuracy	Over Load Protection
400uA	0.1uA	±0.5% ±5	Fuse* (fast blow) F600V,0.5A,31CM
4000uA	1uA		
40mA	0.01mA		
400ma	0.1mA		
4A	0.001A	±0.75% ±5	F600V,10A,31CM
10a	0.01A		
* Warning : Use only currect size,voltage and current rated fuses. Test Leads : Use only correct type and overvoltage category rating.			

ACA					
Range	Resolution	20-50Hz	50Hz-3KHz	3-10KHz	10-30KHz
300uA	0.1uA	±1.0%±10	±0.75%±10	±2.0%±20	±2.0%±40
3000uA	1uA				
30mA	0.01mA				
300mA	0.1mA				N/A
3A	0.001A			N/A	
10A	0.01A				

OHM (Resistance.ohm)			
Range	Resolution	Accuracy	Over Load Protection
400ohm	0.1ohm	±0.3% ±10	600V DC or AC Peak
4Kohm	0.001Kohm	±0.3% ±2	
40Kohm	0.01Kohm		
400Kohm	0.1Kohm		
4Mohm	0.001Mohm	±1.5% ±10	
30Mohm	0.01Mohm	±1.5% ±20	

Continuity Buzzer		
Test Voltage	Threshold	Over Load Protection
3V	100 digits	600V DC or Peak AC

Capacitance			
Range	**Resolution**	**Accuracy**	**Impedance**
400.0uF	0.1uF	±0.3% ±5	600V DC or AC Peak
4.0uF	0.001uF		
40.0uF	0.01uF		
400.0uF	0.1uF		

Frequency			
Range	**Resolution**	**Accuracy**	**Over Load Protection**
100.00Hz	0.01Hz	±0.5% ±1	600V DC or Peak AC
1.0000KHz	0.1Hz		
10.000KHz	1Hz		
100.00KHz	10Hz		
1.0000MHz	100Hz		
2.000MHz	100Hz		
Sensitivity (square wave) 2Hz below N/A 2Hz to 1KHz 1V 1KHz to 2MHz 1.5V			