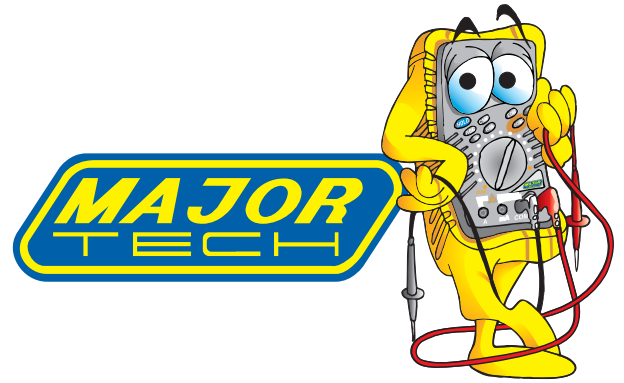


Leak/Load Current Logger



Technical Data

K5020

The K5020 is a 3 channel data logger for multiple parameters recording of voltage and current. The clamp sensors and or voltage sensors can be connected to any of the 3 channels as the logger will automatically identify the sensors connected. The Power Quality analysis mode is for 1 Phase only: Reference Voltage, Swell, Dip and Short Power Interruptions. Variation of the measured voltage and current data can be confirmed simultaneously on the PC display monitor. Supplied with the user friendly software KEW LOG Soft 2, the recorded data can be transmitted to a PC directly by using the USB connection, whereby the data can then be edited for analysis and graphically displayed.

Features Include:

- Records voltage 600V and current as per your required Clamp configuration
- Stores 60 000 data points
- 1Ø Power quality analysis
- 4 Recording modes
- LED flickers when the preset current/voltage value is exceeded
- Continuous measuring time approximately 10 days
- Various measurements are available with 4 recording modes - Normal, Capture, Trigger and Power Quality Analysis
- Lowpass Filter will filter out the higher frequency harmonics
- Selection of One-time mode or Endless mode
- Confirmation of recorded data displayed on LCD
- Light Weight at 265g
- Simplified Power integration where KEW LOG Soft 2 uses current & Voltage recorded to calculate the integral power consumption
- Download data to PC via USB Interface cable
- Non Volatile Memory will retain recorded data even if batteries are exhausted

General Specifications

Operating System	: Successive approximation (CH1 single synchronised sampling)
Rated Max. Working Voltage	: AC9.9Vrms, 14V peak value
Number of Input Channel	: 3ch
Measuring Method	: True RMS
RMS Measuring Interval	: Approx. 100ms
Sampling Interval:	
Normal/Trigger Mode	: Approx. 1.65ms/CH
Capture Mode	: Approx. 0.55ms (waveform: at every 1.1ms)
PQA Mode	: Approx. 0.55ms
Display	: Liquid crystal display
Low Battery Warning	: Battery mark display (in 4 levels)
Over-Range Indication	: "OL" mark is displayed when exceeding the measuring range
Auto Power Off	: Power off function operates automatically after a switch remains for 3mins. (when recording is stopped)
Location for Use	: Indoor use, altitude up to 2000m
Temperature and Humidity	
Range (guaranteed accuracy):	: 23°C ±5°C / relative humidity 85% or less (no condensation)
Operating Temperature and Humidity Ranges	: -10°C ~ 50°C / relative humidity 85% or less (no condensation)

...to be continued p2/



General Specifications

Storage Temperature and Humidity Ranges	: -20°C ~ 60°C / relative humidity 85% or less (no condensation)
Battery	: DC6V: Alkaline battery (LR6) X 4pcs External supply DC9V (Special AC adaptor)
Current Consumption	: Approx. 10mA
Possible Measurement Time	: Approx. 10 days (with alkaline LR6 batteries)
Applicable Standards	: IEC61010-1:2001 CATIII 300V Pollution degree 2 IEC61326 (EMC standard)
Overload Protection	: 120% max/10sec of rated current/voltage of each sensor
Withstand Voltage	: AC3540V (RMS 50/60Hz)/for 5sec
Insulation Resistance	: 50Mohm or more/1000V
Dimension	: 111(L) X 60(W) X 42(D)mm
Weight	: Approx. 265g
Accessories	: Alkaline battery LR6: 4pcs, PC software "KEW LOG Soft 2" : 1pce, USB cable: 1pce, carrying case, instruction manual, quick manual, install manual, USB notice sheet.
Options	: Leakage and load current clamp sensor (K8146/K8147/K8148) Load current sensor (K8121/K8122/K8123) Voltage sensor (K8309) AC adaptor (K8320) Carrying bag (K9135) Extension cord for sensor (K7185)

Measuring Range and Accuracy <RMS Accuracy> (AC 50/60Hz, Sine wave, Input 10% or more of the range at CH1)		
Range	K8146 (30A)	100.0mA/1000mA/10.00A/30.0A
	K8147 (70A)	100.0mA/1000mA/10.00A/70.0A
	K8148 (100A)	100.0mA/1000mA/10.00A/100.0A
	K8121 (100A)	10.00A/100.0A
	K8122 (500A)	50.00A/500.0A
	K8123 (1000A)	100.0/1000A
	K8309 (600V)	600.0V
Digit Number	4 digit	
Effective Input Range	0% ~ 100% of each range	
Display Range	0% ~ 105% of each range ("OL" is displayed over 105%)	
Accuracy	100.0mA Range: $\pm 2.0\% \text{rdg} \pm 0.9\% \text{f.s.}$ + accuracy of sensor	
	Other Ranges: $\pm 1.5\% \text{rdg} \pm 0.7\% \text{f.s.}$ + accuracy of sensor	
Crest Factor	2.5% or less: RMS accuracy (sine) + 2%rdg + 1%f.s. (95% or less of each range)	
<Accuracy at Trigger Recording Mode> (AC 50/60Hz, Sine wave)		
Accuracy	100.0mA Range: $\pm 3.5\% \text{rdg} \pm 2.2\% \text{f.s.}$ = accuracy sensor Other Ranges: $\pm 3.0\% \text{rdg} \pm 2.0\% \text{f.s.}$ = accuracy sensor	
<Accuracy at Capture / Power Quality Analysis Mode> <Accuracy of Instantaneous Value at Capture Recording Mode>		
Accuracy	100.0mA Range: $\pm 3.0\% \text{rdg} \pm 1.7\% \text{f.s.}$ = accuracy sensor Other Ranges: $\pm 2.5\% \text{rdg} \pm 1.5\% \text{f.s.}$ = accuracy sensor	

Ordering Information

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