

Programmable LoggerScope with RTC

S2505

FEATURE

UNIVERSAL SCOPE+DATA LOGGER+DMM+COUNTER



1. Universal SCOPE

- Dual Channel and Auto Calibration.
- Sampling Time
Single CH mode: **50 MS/s**, Dual CH mode: 25 MS/s
- DC to 5MHz Oscilloscope band width
- Automatic Triggering.
- Automatic setting for horizontal and vertical division
- Roll and Single shot mode
- Excellent internal noise reduction
- Real time Update.

2. Data Logger

- Data Logging function stores up to 17,000 readings
- Sampling Rate: 0.25S/s to 60S/s
- Sampling Mode: Peak, Sampling Time
- Real Time Clock(RTC)

3. Digital Multi-Meter

- Large 5,000 count and fast 50 segment analog display
- Programmable Multi display
Record (MAX, MIN, AVG), Relative (REF, ERR), Compare (GO-NOGO) mode
- Trend plot, Data hold and run mode
- Built-in auto ranging **True RMS** measurements for AC
- 600V Overload Protection

4. Frequency Counter

- Frequency Range: 0 to 10MHz
- Accuracy: $\pm(0.05\%+5)$

5. General

- Easy to Operate
- Extra Bright Back light display and Low battery indication.
- USB interfaces for measurement data & waveform.
- Display Type: Super-Twist 132 x 128 pixels



Universal Scope Mode



Data Logger Mode



DMM / Record Mode



DMM / Relative Mode



DMM / Compare Mode



DMM / Trend Mode

■ Technical Specification

Oscilloscope Function			
Horizontal		Vertical	
Sample Rate	50 MS/s (Single CH) 25 MS/s (Dual CH)	Bandwidth	5MHz
Record Length	512 in single shot mode and 256 in all other modes.	Resolution	8 Bit
Sample / Div	25	Channels	Dual
Update Rate	Real Time	Coupling	AC, DC
Modes	Single shot, Roll, Normal	Input impedance	1 MΩ
Accuracy	0.01%	Accuracy	3%
Sweep Rate	1μs to 5S in 1, 2, 5 sequence	Max. Input Volts	DC or AC 600Vrms
Triggering		Volt / Division	50mV to 500V in 1, 2, 5 sequence
Type	Internal, External	Other	
Coupling	AC, DC	Wave Form Memory	16 Shots
Slope	↑ or ↓ edge		
Internal Sensitivity	2 / 20 Division		

Data Logger Function	
Data Logger Memory	17,000 Points
Sample Rate	Max. 0.25S/s to 60S/s
Sampling Mode	Peak, Sampling Time
Clock	Real Time

Digital MultiMeter Function	
Programmable Function: Record (MAX, MIN, AVG), Relative (REF, ERR), Compare (GO-NOGO)	
Trend plot	

DC V	Scope V/Div	DMM Range	Resolution	Accuracy			Impedance 1 MΩ
	50m,100m,200m	500mV	0.1mV	±(0.3%+3)			
	500m, 1, 2	5V	0.001V				
	5, 10, 20	50V	0.01V	±(0.5%+5)			
	50, 100, 200	500V	0.1V				
500	1000V	1V					
ACV (True RMS)	Scope V/Div	DMM Range	Resolution	Accuracy			Impedance 1 MΩ
	50m,100m,200m	300mV	0.1mV	50~450Hz	0.45k~5kHz	5k~20kHz	
	500m, 1, 2	3V	0.001V	±(0.75%+5)			
	5, 10, 20	30V	0.01V				
	50, 100, 200	300V	0.1V	±(2%+5)			
500	750V	1V	N/A				
OHM	Range	Resolution	Accuracy			Over Load Protection	
	5 kΩ	0.001 kΩ	±(0.5%+5)			600V DC or AC rms	
	50 kΩ	0.01 kΩ					
	500 kΩ	0.1 kΩ	±(0.75%+10)				
5 MΩ	0.001 MΩ						
Continuity Buzzer	Test Voltage		Threshold			Over Load Protection	
	1.7V		100 digits			600V DC or AC rms	
Frequency (Full Auto Range)	Range	Resolution	Accuracy			Over Load Protection	
	100 Hz	0.01 Hz	±(0.05%+5)			600V DC or AC rms	
	1 kHz	0.0001 kHz					
	10 kHz	0.001 kHz					
	100 kHz	0.01 kHz					
	1 MHz	0.0001 MHz					
10 MHz	0.001 MHz						
RPM	Range		Resolution			Accuracy	
	240 – 60,000		1 RPM			±(0.05%+5)	
Pulse Width	Range		2μS – 500mS (Pulse Width > 2μS)				
% Duty	Range		25% - 75%				
General	Power Requirement		Ni-MH Battery 4.8V (1.2V x 4 cell)				
	Battery Life Time		4 Hours with Backlight off, 3 Hours with Backlight on				
	Dimensions / Weight		90(W) x 195(H) x 40(D) mm / About 460g				
	Standard Accessories		Manual, Test Leads (2), Ni-MH Battery, Rechargeable Adaptor				
	Optional Accessories		USB Cable & S/W, Rubber Holster, Carrying Case				