UNISource Corporation

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: ±(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

Sample Rate	50 MS/s (Single CH) 25 MS/s (Dual CH)
Record Length	512 in single shot mode and 256 in all other modes.
Sample / Div	25
Update Rate	Real Time
Modes	Single shot, Roll, Normal
Accuracy	0.01%
Sweep Rate	1μS to 5S in 1, 2, 5 sequence

▪ Vertical

Bandwidth	5MHz
Resolution	8 Bit
Channels	Dual
Coupling	AC, DC
Input impedance	1 MΩ
Accuracy	3%
Max. Input Volts	DC or AC 600Vrms
Volt / Division	50mV to 500V in 1, 2, 5 sequence

▪ Triggering

Type	Internal, External
Coupling	AC, DC
Slope	↑ or ↓ edge
Internal Sensitivity	2 / 20 Division

▪ Other

Wave Form Memory	16 Shots

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
	50m,100m,200m	500mV	0.1mV	±(0.3%+3)		1 MΩ
	500m, 1, 2	5V	0.001V			
	5, 10, 20	50V	0.01V			
	50, 100, 200	500V	0.1V	±(0.5%+5)		
	500	1000V	1V			
ACV (True RMS)	Scope V/Div	DMM Range	Resolution	Accuracy		Impedance
				50~450Hz	0.45k~5kHz	5k~20kHz	
	50m,100m,200m	300mV	0.1mV	±(0.75%+5)	±(2%+5)	±(2.5%+5)	1 MΩ
	500m, 1, 2	3V	0.001V				
	5, 10, 20	30V	0.01V				
	50, 100, 200	300V	0.1V				
	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				
	5 MΩ	0.001 MΩ	±(0.75%+10)			
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			