

# Analogue+Digital Multimeter



## ST-3502

### FEATURES

- 3½ digit, high contrast LCD, with a maximum display of 1999
- Automatic polarity indication, zero adjustment
- Low battery (BAT) indication
- Over range indication: highest digit of (1) or (-1)
- EN 61010-1 CAT III 600V, EN 61326-1

### ANALOGUE DISPLAY

- Large 90° wide and 84mm long mirror scale. (adapted to digital, analogue maximum indication 2400)
- Shock and vibration resistant TAUT BAND movement
- Pointer can be selected to either left-hand zero (normal mode) or center zero (galvo-mode)
- In galvo-mode pointer deflects right to indicate positive polarity and left to indicate negative polarity
- Automatic center zero and ohm zero
- Dimensions: 175(L) × 109(W) × 44(D)mm

### SPECIFICATIONS

#### DC Voltage

Range	Analogue Maximum	Resolution Digital	Accuracy		Protection
			Digital	Analogue	
200mV	240mV	100µV			DC500V
2V	2.4V	1mV			AC350V
20V	24V	10mV	±(1%rdg+1dgt)	±3%F.S.	DC1200V
200V	240V	100mV			AC800V
600V	600V	1V			

- Input impedance: 10MΩ

#### AC Voltage

Range	Analogue Maximum	Resolution Digital	Accuracy		Protection
			Digital	Analogue	
200mV	240mV	100µV			DC500V
2V	2.4V	1mV			AC350V
20V	24V	10mV	±(1%rdg+5dgt)	±3%F.S.	DC1200V
200V	240V	100mV			AC800V
600V	600V	1V	±(1.5%rdg+5dgt)		

- Input impedance: 10MΩ

#### DC Current

Range	Analogue Maximum	Resolution Digital	Accuracy		Protection
			Digital	Analogue	
200µA	240µA	100nA			
2mA	2.4mA	1µA			
20mA	24mA	10µA	±(1%rdg+5dgt)	±3%F.S.	800mA
200mA	240mA	100µA			
10A	10A	10mA	±(2%rdg+3dgt)		10A

#### AC Current

Range	Analogue Maximum	Resolution Digital	Accuracy		Protection
			Digital	Analogue	
200µA	240µA	100nA			
2mA	2.4mA	1µA			
20mA	24mA	10µA	±(1%rdg+5dgt)	±3%F.S.	800mA
200mA	240mA	100µA			
10A	10A	10mA	±(2%rdg+3dgt)		10A

#### Resistance

Range	Analogue Maximum	Resolution Digital	Accuracy		Protection
			Digital	Analogue	
200Ω	5kΩ	100mΩ		±4%arc	
2kΩ	50kΩ	1mΩ		-10Ω	
20kΩ	500kΩ	10Ω	±(1%rdg+5dgt)		50V DC
200kΩ	5MΩ	100Ω			
2000kΩ	50MΩ	1kΩ		±4%arc	
20MΩ	500MΩ	10kΩ	±(1.5%rdg+5dgt)		

#### Capacitance

Range	Analogue Maximum	Resolution Digital	Accuracy		Test Voltage
			Digital	Analogue	
2000pF	2400pF	1pF			
20nF	24nF	10pF			
200nF	240nF	100pF	±(3%rdg+10dgt)	±5%F.S.	50mV
2µF	2.4µF	1nF			400Hz
20µF	24µF	10nF			

#### Instant Continuity

Range	Analogue Maximum	Resolution Digital	Continuity Indication	Open Voltage
200Ω	5kΩ	100mΩ	Built Buzzer sounds when Resistance is less than 40Ω	3.2V MAX

#### Frequency

Range	Analogue Maximum	Resolution Digital	Accuracy		Test Voltage
			Digital	Analogue	
2000Hz	2400Hz	1Hz	±(2%rdg+3dgt)	±3%F.S.	350Vrms

#### Diode Test

Test Current 3.0 ± 0.6mA  
Test Voltage 3.2V Max.

#### hFE Test

Base DC Current 10µA  
Vce 2.8 ± 0.4V  
hFE 1000