

Product Datasheet - Technical Specifications



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NVD - Clampmeter and Multimeter

Main characteristics

- Polarity indication
- Continuity test
- Unipolar test
- Rotary Field Indication
- AC current measurement up to 200A
- Lighting of the measuring area
- Automatic start / stop
- Voltage measurement up to 1000V AC / DC
- Diode test
- Resistance measurement
- IP2X probes

A revolutionary device

The SEFRAM 70 is a versatile device that integrates all functions needed for electricians: NVD (Voltage checker) with Self Test, Multimeter and Clampmeter.

Robustness and efficiency

Robust, the SEFRAM 70 is a field device that does not fear shocks. It allows you to illuminate area for measurements in dark environments. The LCD display and the LEDs allow an instant reading of the measured parameters. **Removable and replaceable** test leads and cords significantly extend the life of SEFRAM 70.

Security

SEFRAM 70 complies with the new standard EN61243-3. With its IP2X 2mm and 4mm tip probes the user will be safe in all circumstances. The SEFRAM 70 is CAT III - 1000V and CAT IV - 600V. It is equipped with a self test to validate its operation.



IP2X probes (2mm and 4mm)



Removable test leads



NVD

Multimeter

Clampmeter

Self Test

Technical specifications SEFRAM 70

DC Voltage	Range	Resolution	Accuracy
With batteries	7.0V to 999.9V	0.1V	±(1.0% + 2D)
Without batteries (1)	35V to 999.9V	0.1V	
<i>(1) Measurement without batteries is only available for < 35°C, > -15°C. The meter will show "bAtt" and ELV LED when measurement is not available.</i>			
Max. Input Current	< 3.5mA @ 1000V		
Overload Protection	AC/DC 1000V		

AC Voltage	Range	Resolution	Accuracy
With batteries	6.0V(1) to 999.9V	0.1V	±(1.5% + 5D)
Without batteries (2)	45V to 999.9V	0.1V	

*(1) For > 65Hz, the minimum range is 8.0V.
 (2) Measurement without batteries is only available for < 35°C, > -15°C. The meter will show "bAtt" and ELV LED when measurement is not available.*

Frequency Response	45Hz to 400Hz		
Max. Input Current	< 3.5mA @ 1000V		
Overload Protection	AC/DC 1000V		

Resistor	Range	Resolution	Accuracy
	9999Ω	1Ω	±(1.5% + 5D)
	50.00kΩ	0.01Ω	

Output Voltage	about 0.5V		
Overload Protection	AC/DC 1000V		

Continuity
*The built-in buzzer sounds in the case of measuring resistance less than 1.8kΩ and may be up to 2.7kΩ.
 LED RX shows at the same time.*

Continuity Indicator	2.7kHz Tone Buzzer and RX LED		
Response Time of Buzzer	< 100 msec		
Output Voltage	about 0.5V		
Overload Protection	AC/DC 1000V		

AC Ampere	Range	Resolution	Accuracy
	200.00A	0.1A	±(3.0% + 5D)

Frequency Response	45Hz to 65Hz		
Overload Protection	AC/DC 200A		

Rotary Field Indication

<i>For 3 phase 4 wire system only</i>			
Sensitivity	90V to 1000V (Phase-to-ground)		
Frequency Range	45Hz to 65Hz		

"L" LED is on when the signal of L2 probe lead the signal of L1 probe; "R" LED is on when the signal of L1 probe lead the signal L2 probe.

Single-Pole Phase Check			
Sensitivity	90V to 1000V (Phase-to-ground)		
Frequency Range	45Hz to 65Hz		
Indicator	2.7kHz Tone Buzzer and ELV LED		

General Specifications

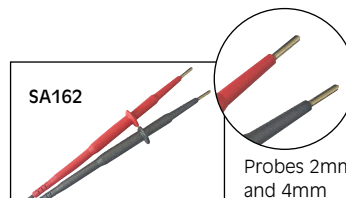
Display Count	10000 counts.		
Overrange Display	"OL" or "-OL"		
Conversion Rate	3 times/second		
Dimensions (W x H x D)	57 x 220 x 35 mm		
Weight	200g		
Power Requirements	AAA Size Batteryx2(R03, LR03, 24D, 24A)		
Battery Life	About 1000 operations. (based on Alkaline batteries, 30 sec. ON, 240 sec. OFF)		
Maximum Conductor Size	16mm		
Safety Standard Compliance	IEC / EN 61010-1, IEC / EN 61010-2-032, IEC / EN 61010-2-033, IEC / EN 61010-031 for CAT IV 600V, CATIII 1000V IEC / EN 61326-1 IEC / EN 61243-3		
Pollution Degree	2		
Maximum Operating Altitude	2000m (6562ft)		
Operating Temperature & Relative Humidity	-15°C to 30°C, ≤80%RH 30°C to 40°C, ≤75%RH 40°C to 55°C, ≤45%RH		
Storage Temperature	-20 to +60°C, 0 to 80% RH (no batteries)		
Temperature Coefficient	0.2 x (Specified accuracy) / °C, < 18°C, > 28°C		
IP Rating	IP65		
Vibration	Random Vibration per MIL-PRF-28800F Class 2		
Drop Protection	4 feet drop to hardwood on concrete floor.		
Waranty	2 years		

Supplied with: IP2X test leads, batteries, belt cover.

Optional accessories :

Test leads : SA162 :

Carrying Case : SC518 :



SC523 belt cover



FTSEFRAM70EN00 - Specifications can be updated without notice