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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

Sefram

- 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.











Sefram

SEFRAM 70

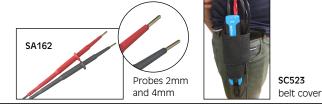
NVD - Clampmeter and Multimeter

echnical specifications		SEFRAM 70	
OC Voltage	Den en	Desclution	
With battorios	Range 7.0V to 999.9V	Resolution	Accuracy
/ith batteries /ithout batteries (1)	35V to 999.9V	0.1V 0.1V	±(1.0% + 2D)
) Measurement without batteries is only available f			surement is not available
ax. Input Current		< 3.5mA @ 1000V	
verload Protection		AC/DC 1000V	
CVoltage		10,00 10001	
	Range	Resolution	Accuracy
ith batteries	6.0V(1) to 999.9V	0.1V	
thout batteries (2)	45V to 999.9V	0.1V	±(1.5% + 5D)
) For > 65Hz, the minimum range is 8.0V.			L
Measurement without batteries is only available	for < 35°C, > -15°C. The meter will show	v "bAtt" and ELV LED when mea	surement is not available.
equency Response		45Hz to 400Hz	
ix. Input Current		< 3.5mA @ 1000V	
erload Protection		AC/DC 1000V	
sistor	-		
	Range	Resolution	Accuracy
	<u>9999Ω</u>	<u>1Ω</u>	±(1.5% + 5D)
	50.00kΩ	<u>0.01Ω</u>	
tput Voltage		about 0.5V	
erload Protection		AC/DC 1000V	
ontinuity he built-in buzzer sounds in the case of measuring D RX shows at the same time.	resistance less than 1.8k Ω and may be	up to 2.7kΩ.	
ntinuity Indicator	2	.7kHz Tone Buzzer and RX LED	
sponse Time of Buzzer	< 100 msec		
Itput Voltage		about 0.5V	
erload Protection		AC/DC 1000V	
CAmpere			
· · · · ·	Range	Resolution	Accuracy
	200.00A	0.1A	±(3.0% + 5D)
equency Response		45Hz to 65Hz	
verload Protection		AC/DC 200A	
otary Field Indication			
r 3 phase 4 wire system only			
nsitivity		90V to 1000V (Phase-to-ground)	
equency Range		45Hz to 65Hz	-
		al of 14 proba load the signal 12 pi	obe.
	I of L1 probe; "R" LED is on when the sign		
ngle-Pole Phase Check			
ngle-Pole Phase Check		90V to 1000V (Phase-to-ground)	
ngle-Pole Phase Check nsitivity equency Range		00V to 1000V (Phase-to-ground) 45Hz to 65Hz	
igle-Pole Phase Check sitivity guency Range licator		90V to 1000V (Phase-to-ground)	
ngle-Pole Phase Check nsitivity guency Range licator		00V to 1000V (Phase-to-ground) 45Hz to 65Hz	
ngle-Pole Phase Check nsitivity equency Range dicator eneral Specifications		00V to 1000V (Phase-to-ground) 45Hz to 65Hz	
ngle-Pole Phase Check nsitivity equency Range dicator eneral Specifications splay Count		00V to 1000V (Phase-to-ground) 45Hz to 65Hz 2.7KHz Tone Buzzer and ELV LED	
Ingle-Pole Phase Check Instituity equency Range licator eneral Specifications play Count errange Display		20V to 1000V (Phase-to-ground) 45Hz to 65Hz 2.7kHz Tone Buzzer and ELV LED 10000 counts. "OL" or "-OL" 3 times/second	
ngle-Pole Phase Check nsitivity equency Range dicator eneral Specifications splay Count errange Display inversion Rate		20V to 1000V (Phase-to-ground) 45Hz to 65Hz 2.7kHz Tone Buzzer and ELV LED 10000 counts. "OL" or "-OL"	
ngle-Pole Phase Check nsitivity equency Range licator eneral Specifications splay Count errange Display nversion Rate mensions (W x H x D) eight		200V to 1000V (Phase-to-ground) 45Hz to 65Hz 2.7kHz Tone Buzzer and ELV LED 10000 counts. "OL" or "-OL" 3 times/second 57 x 220 x 35 mm 200g	
ngle-Pole Phase Check nstivity equency Range dicator eneral Specifications splay Count errange Display inversion Rate mensions (W x H x D) eight wer Requirements	AAA	20V to 1000V (Phase-to-ground) 45Hz to 65Hz 2.7kHz Tone Buzzer and ELV LED 10000 counts. "OL" or "-OL" 3 times/second 57 x 220 x 35 mm 200g ize Batteryx2(R03, LR03, 24D, 24	
igle-Pole Phase Check sitivity sitivity icator eneral Specifications play Count errange Display nversion Rate mensions (W x H x D) ight wer Requirements ttery Life	AAA	20V to 1000V (Phase-to-ground) 45Hz to 65Hz 2.7kHz Tone Buzzer and ELV LED 10000 counts. "OL" or "-OL" 3 times/second 57 x 220 x 35 mm 200g ize Batteryx2(R03, LR03, 24D, 22 based on Alkaline batteries, 30	
ngle-Pole Phase Check nsitivity equency Range dicator reneral Specifications splay Count rerrange Display inversion Rate mensions (W x H x D) eight weer Requirements ttery Life	AAA S About 1000 operations.	200V to 1000V (Phase-to-ground) 45Hz to 65Hz 2.7kHz Tone Buzzer and ELV LED 10000 counts. "OL" or "-OL" 3 times/second 57 x 220 x 35 mm 200g ize Batteryx2(R03, LR03, 24D, 24) based on Alkaline batteries, 30 16mm	sec. ON, 240 sec. OFF)
ngle-Pole Phase Check nsitivity equency Range dicator splay Count rerrange Display nversion Rate mensions (W x H x D) eight ower Requirements ttery Life	AAA S About 1000 operations.	200V to 1000V (Phase-to-ground) 45Hz to 65Hz 2.7kHz Tone Buzzer and ELV LED 10000 counts. "OL" or "-OL" 3 times/second 57 x 220 x 35 mm 200g ize Batteryx2(R03, LR03, 24D, 2: based on Alkaline batteries, 30 16mm , IEC / EN 61010-2-032, IEC / EN	sec. ON, 240 sec. OFF) I 61010-2-033,
ngle-Pole Phase Check nsitivity equency Range dicator seneral Specifications splay Count terrange Display niversion Rate mensions (W x H x D) eight wer Requirements ttery Life aximum Conductor Size	AAA S About 1000 operations.	20V to 1000V (Phase-to-ground) 45Hz to 65Hz 2.7kHz Tone Buzzer and ELV LED 10000 counts. "OL" or "-OL" 3 times/second 57 x 220 x 35 mm 200g ize Batteryx2(R03, LR03, 24D, 24 based on Alkaline batteries, 30 16mm , IEC / EN 61010-2-032, IEC / EN 1010-031 for CAT IV 600V, CATIII	sec. ON, 240 sec. OFF) I 61010-2-033,
gle-Pole Phase Check sistivity equency Range lcator eneral Specifications play Count errange Display nversion Rate nensions (W x H x D) ight wer Requirements terry Life ximum Conductor Size	AAA S About 1000 operations.	200V to 1000V (Phase-to-ground) 45Hz to 65Hz 2.7kHz Tone Buzzer and ELV LED 10000 counts. "OL" or "-OL" 3 times/second 57 x 220 x 35 mm 200g ize Batteryx2(R03, LR03, 24D, 2e) based on Alkaline batteries, 30 16mm , IEC / EN 61010-2-032, IEC / EN 1010-031 for CAT IV 600V, CATIII IEC / EN 61326-1	sec. ON, 240 sec. OFF) I 61010-2-033,
igle-Pole Phase Check sitivity equency Range icator eneral Specifications play Count errange Display nversion Rate mensions (W x H x D) eight wer Requirements ttery Life ximum Conductor Size	AAA S About 1000 operations.	20V to 1000V (Phase-to-ground) 45Hz to 65Hz 2.7kHz Tone Buzzer and ELV LED 10000 counts. "OL" or "-OL" 3 times/second 57 x 220 x 35 mm 200g ize Batteryx2(R03, LR03, 24D, 24 based on Alkaline batteries, 30 16mm , IEC / EN 61010-2-032, IEC / EN 1010-031 for CAT IV 600V, CATIII	sec. ON, 240 sec. OFF) I 61010-2-033,
Ingle-Pole Phase Check Sitivity Sequency Range Sequency Range Sequency Range Sequency Range Sequency Range Sequency Range Sequency Rate Sequen	AAA S About 1000 operations.	20V to 1000V (Phase-to-ground) 45Hz to 65Hz 2.7kHz Tone Buzzer and ELV LED 10000 counts. "OL" or "-OL" 3 times/second 57 x 220 x 35 mm 200g 122 Batteryx2(R03, LR03, 24D, 2: based on Alkaline batteries, 30 16mm , IEC / EN 61010-2-032, IEC / EN 1010-031 for CAT IV 600V, CATIII IEC / EN 61326-1 IEC / EN 61243-3 2	sec. ON, 240 sec. OFF) I 61010-2-033,
Image-Pole Phase Check nsitivity equency Range licator teneral Specifications splay Count terrange Display onversion Rate mensions (W x H x D) eight wer Requirements ttery Life aximum Conductor Size fety Standard Compliance vilution Degree	AAA S About 1000 operations.	20V to 1000V (Phase-to-ground) 45Hz to 65Hz 2.7kHz Tone Buzzer and ELV LED 10000 counts. "OL" or "-OL" 3 times/second 57 x 220 x 35 mm 200g ize Batteryx2(RO3, LRO3, 24D, 2: based on Alkaline batteries, 30 16mm , IEC / EN 61010-2-032, IEC / EN 1010-031 for CAT IV 600V, CATIII IEC / EN 61326-1 IEC / EN 61243-3 2 2000m (6562ft)	sec. ON, 240 sec. OFF) I 61010-2-033,
ngle-Pole Phase Check nsitivity equency Range dicator seneral Specifications splay Count rerrange Display noversion Rate mensions (W x H x D) eight ower Requirements tittery Life aximum Conductor Size fety Standard Compliance pllution Degree aximum Operating Altitude	AAA S About 1000 operations.	200V to 1000V (Phase-to-ground) 45Hz to 65Hz 2.7kHz Tone Buzzer and ELV LED 10000 counts. "OL" or "-OL" 3 times/second 57 x 220 x 35 mm 200g ize Batteryx2(R03, LR03, 24D, 2/2) based on Alkaline batteries, 30 16mm , IEC / EN 61010-2-032, IEC / EN 1010-031 for CAT IV 600V, CATIII IEC / EN 61326-1 IEC / EN 61326-1 IEC / EN 61243-3 2 2000m (6562ft) -15°C to 30°C, ≦80%RH	sec. ON, 240 sec. OFF) I 61010-2-033,
Ingle-Pole Phase Check Instituity equency Range licator eneral Specifications splay Count errange Display inversion Rate mensions (W x H x D) eight wer Requirements ttery Life aximum Conductor Size fety Standard Compliance illution Degree aximum Operating Altitude	AAA S About 1000 operations. IEC / EN 61010-1	20V to 1000V (Phase-to-ground) 45Hz to 65Hz 2.7kHz Tone Buzzer and ELV LED 10000 counts. "OL" or "-OL" 3 times/second 57 x 220 x 35 mm 200g ize Batteryx2(R03, LR03, 24D, 2- based on Alkaline batteries, 30 16mm , IEC / EN 61010-2-032, IEC / EN 1010-031 for CAT IV 600V, CATIII IEC / EN 61010-2-032, IEC / EN 1010-031 for CAT IV 600V, CATIII IEC / EN 61326-1 IEC / EN 61326-1 IEC / EN 61243-3 2 2000m (6562ft) -15°C to 30°C, ≦80%RH 30°C to 40°C, ≨75%RH	sec. ON, 240 sec. OFF) I 61010-2-033,
ngle-Pole Phase Check nsitivity squency Range ilcator eneral Specifications pplay Count errange Display inversion Rate mensions (W x H x D) eight wer Requirements ttery Life iximum Conductor Size Fety Standard Compliance illution Degree aximum Operating Altitude erating Temperature & Relative Humidity	AAA S About 1000 operations. IEC / EN 61010-1 IEC / EN 6	20V to 1000V (Phase-to-ground) 45Hz to 65Hz 2.7kHz Tone Buzzer and ELV LED 10000 counts. "OL" or "-OL" 3 times/second 57 x 220 x 35 mm 200g ize Batteryx2(RO3, LRO3, 24D, 2: based on Alkaline batteries, 30 16mm , IEC / EN 61010-2-032, IEC / EN 1010-031 for CAT IV 600V, CATIII IEC / EN 61226-1 IEC / EN 61236-1 IEC / EN 61243-3 2 2000m (6562ft) -15°C to 30°C, ≦75%RH 30°C to 40°C, ≦75%RH 40°C to 55°C, ≦45%RH	sec. ON, 240 sec. OFF) 61010-2-033, 1000V
ngle-Pole Phase Check nsitivity soluency Range licator eneral Specifications splay Count errange Display inversion Rate mensions (W x H x D) eight wer Requirements ttery Life aximum Conductor Size fety Standard Compliance llution Degree aximum Operating Altitude erating Temperature & Relative Humidity prage Temperature	AAA S About 1000 operations. IEC / EN 61010-1 IEC / EN 6	20V to 1000V (Phase-to-ground) 45Hz to 65Hz 2.7kHz Tone Buzzer and ELV LED 10000 counts. "OL" or "-OL" 3 times/second 57 x 220 x 35 mm 200g 32e Batteryx2(R03, LR03, 24D, 2- based on Alkaline batteries, 30 16mm ,IEC / EN 61010-2-032, IEC / EN 1010-031 for CAT IV 600V, CATIII IEC / EN 61326-1 IEC / EN 61243-3 2 2000m (6562ft) -15°C to 30°C, ≦80%RH 30°C to 40°C, ≦75%RH 40°C to 55°C, ≦45%RH 0 +60°C, 0 to 80% RH (no batter	sec. ON, 240 sec. OFF) 61010-2-033, 1000V ies)
India Pole Phase Check Instituity equency Range licator eneral Specifications splay Count errange Display inversion Rate mensions (W x H x D) eight wer Requirements tttery Life aximum Conductor Size fety Standard Compliance illution Degree aximum Operating Altitude werating Temperature & Relative Humidity prage Temperature merature Coefficient	AAA S About 1000 operations. IEC / EN 61010-1 IEC / EN 6	200 to 1000V (Phase-to-ground) 45Hz to 65Hz 2.7kHz Tone Buzzer and ELV LED 10000 counts. °OL" or "-OL" 3 times/second 57 x 220 x 35 mm 200g ize Batteryx2(R03, LR03, 24D, 2c) based on Alkaline batteries, 30 16mm , IEC / EN 61010-2-032, IEC / EN 1010-031 for CAT IV 600V, CATIII IEC / EN 611326-1 IEC / EN 61243-3 2 2000m (6562ft) -15°C to 30°C, ≦80%RH 30°C to 40°C, ≦75%RH 0+60°C, 0 to 80% RH (no batterie decified accuracy) / °C, < 18°C, >	sec. ON, 240 sec. OFF) 61010-2-033, 1000V ies)
Ingle-Pole Phase Check Instituity enstituity equency Range licator eneral Specifications splay Count terrange Display inversion Rate mensions (W x H x D) eight wwer Requirements ttery Life aximum Conductor Size fety Standard Compliance illution Degree aximum Operating Altitude verating Temperature & Relative Humidity prage Temperature mensions Rating	AAA 9 About 1000 operations. IEC / EN 61010-1 IEC / EN 6	20V to 1000V (Phase-to-ground) 45Hz to 65Hz 2.7kHz Tone Buzzer and ELV LED 10000 counts. "OL" or "-OL" 3 times/second 57 x 220 x 35 mm 200g ize Batteryx2(RO3, LRO3, 24D, 2- based on Alkaline batteries, 30 16mm , IEC / EN 61010-2-032, IEC / EN 1010-031 for CAT IV 600V, CATIII IEC / EN 61010-2-032, IEC / EN 1010-031 for CAT IV 600V, CATIII IEC / EN 61010-2-032, IEC / EN 1010-031 for CAT IV 600V, CATIII IEC / EN 61010-2-032, IEC / EN 1010-031 for CAT IV 600V, CATIII IEC / EN 61326-1 IEC / EN 61243-3 2 2000m (6562ft) -15°C to 30°C, ≦80%RH 30°C to 40°C, ≦75%RH 40°C to 55°C, ≦45%RH 0 +60°C, 0 to 80% RH (no batter vecified accuracy) / °C, < 18°C, > IP65	sec. ON, 240 sec. OFF) 61010-2-033, 1000V ies)
LED is on when the signal of L2 probe lead the signal ngle-Pole Phase Check nsitivity equency Range dicator eneral Specifications splay Count errange Display onversion Rate mensions (W x H x D) eight wer Requirements tttery Life aximum Conductor Size fety Standard Compliance fety Standard Compliance plution Degree aximum Operating Altitude berating Temperature & Relative Humidity orage Temperature mperature Coefficient Rating pration	AAA S About 1000 operations. IEC / EN 61010-1 IEC / EN 6	20V to 1000V (Phase-to-ground) 45Hz to 65Hz 2.7kHz Tone Buzzer and ELV LED 10000 counts. "OL" or "-OL" 3 times/second 57 x 220 x 35 mm 200g ize Batteryx2(R03, LR03, 24D, 2: based on Alkaline batteries, 30 16mm , IEC / EN 61010-2-032, IEC / EN 1010-031 for CAT IV 600V, CATIII IEC / EN 61010-2-032, IEC / EN 1010-031 for CAT IV 600V, CATIII IEC / EN 61243-3 2 2000m (6562ft) -15°C to 30°C, ≦75%RH 30°C to 40°C, ≦75%RH 40°C to 55°C, ≦45%RH 0 +60°C, 0 to 80% RH (no batter iecified accuracy) / °C, < 18°C, > IP65 Vibration per MIL-PRF-28800F (0)	sec. ON, 240 sec. OFF) 61010-2-033, 1000V ies) _28°C Class 2
Image-Pole Phase Check Instituity equency Range dicator General Specifications splay Count ierrange Display onversion Rate mensions (W x H x D) eight wwer Requirements ttery Life aximum Conductor Size fety Standard Compliance pllution Degree aximum Operating Altitude perating Temperature & Relative Humidity prage Temperature mensions (W z H x D) eight wwer Requirements ttery Life aximum Conductor Size	AAA S About 1000 operations. IEC / EN 61010-1 IEC / EN 6	20V to 1000V (Phase-to-ground) 45Hz to 65Hz 2.7kHz Tone Buzzer and ELV LED 10000 counts. "OL" or "-OL" 3 times/second 57 x 220 x 35 mm 200g ize Batteryx2(RO3, LRO3, 24D, 2- based on Alkaline batteries, 30 16mm , IEC / EN 61010-2-032, IEC / EN 1010-031 for CAT IV 600V, CATIII IEC / EN 61010-2-032, IEC / EN 1010-031 for CAT IV 600V, CATIII IEC / EN 61010-2-032, IEC / EN 1010-031 for CAT IV 600V, CATIII IEC / EN 61010-2-032, IEC / EN 1010-031 for CAT IV 600V, CATIII IEC / EN 61326-1 IEC / EN 61243-3 2 2000m (6562ft) -15°C to 30°C, ≦80%RH 30°C to 40°C, ≦75%RH 40°C to 55°C, ≦45%RH 0 +60°C, 0 to 80% RH (no batter vecified accuracy) / °C, < 18°C, > IP65	sec. ON, 240 sec. OFF) 61010-2-033, 1000V ies) _28°C Class 2

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

Test leads : SA162 :

Carrying Case : SC518 :



FTSEFRAM70EN00 - Specifications can be updated without notice





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