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SEFELEC 32-C The EATON Earth Bond Tester



The SEFELEC 32-C advantages:

Earth bond test under 6V / 32A 8V / 50A (in option

Programmable test ramps Up, Steady, Down Multi-ramps mode (hipot test)

7" TFT Multi touchscreen 16 million colors for programming, tests and results display

ARM-Dual core control & Nand 3D technologies inside for more accuracy, stability and repeatability

DSPs speeds up measurements and production tests

Large internal memory for configurations and test results storage

IEC 61010-2-034 full compliance, specific safety standard for insulation and dielectric strength meters

The **SEFELEC 32-C** is the EATON new generation earth bond tester, based et controlled y components such as ARM-Dual Core or DSPs. This technology brings more reliability and repeatable measurement for operators.

High accuracy and fast measurements are adapted to quality processes needs in production and also for the income controls department.

The sequence mode makes the **SEFELEC 32-C** easy to integrate in a test or control bench.

The new SEFELEC Series HMI, with its 7" dual-touch TFT screen, offers simple and intuitive operations.

- Native Ethernet / RS232 / USB / PLC / 0-10 V
- IEEE488-2 interface as an option
- Bus CAN for external additional modules (Scanners)
- SIL2 double safety loop
- Automatic measurement range selection
- Sequence mode to combine several successive tests (i.e.: Insulation / Hipot / Insulation / Earth Bond)





SEFELEC 32C : Earth Bond Tester - General Overview



The SEFO-5XREAR option provides rear connections for measurement cables and accessories.



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SEFELEC 32-C : Touchscreen - General Overview



SEFELEC 32-C : Accessories & Options

Accessories

SEFA-CO183-3202 ⁽¹⁾	32A 4mm / aligator clips cables for earth bond test, length. 2 meters				
SEFA-CO183-5002 (1)(2)	50A Lemo connetor cable / large pincers for earth bond test, length. 2 meters				
SEFA-TE81-3202 ⁽¹⁾⁽³⁾	Safety probe 32A for earth bond test, with remote control, cable length. 2 meters				
SEFA-TE81-5002 (1)(2)(3)	Safety probe 50A for earth bond test, with remote control, cable length. 2 meters				
SEFA-C0184-3202 ⁽¹⁾	Sonde 2 fils avec pointe rétractable tip for earth bond test, length. 2 meters				
SEFA-KR	19" Rackmount adaptors for SEFELEC Series				
SEFA-CO160	Red/Green safety lamp				

⁽¹⁾ These models are also available with cables length 5m and 10 m. Please order the following part numbers: SEFA-TE81-3205 / SEFA-TE81-3210 / SEFA-CO183-3205 / SEFA-CO183-3210 / SEFA-CO183-5010 SEFA-CO183-5010

⁽²⁾ Requires SEFO-5X50A option (mandatory)

 $^{\mbox{(3)}}$ If, on the probe, the remote control button needs to be actionned , then SEFO-5XRC option is mandatory



SEFO-5X50A

SEFO-5XRC

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SEFA-CO184-3202

SEFA-CO183-5002



SEFO-IEEE488



Options

SEFO-5XRC	Remote control module
SEFO-5X50A	Earth bond test at 8VAC/50A
SEFO-IEEE488	IEEE488-2 communication port
SEFO-5XREAR	Measurement connections on rear pane

SEFELEC 32-C TECHNICAL SPECIFICATIONS

General Specifications	
Mains	230 V AC ±10 % 50 to 60 Hz / single phase
Mains protection	Temporized double fuse T10AH 250V
Input power	700 VA max.
Temperature range	Storage Operation
	-10°C à +60°C 0°C à +45°C
	Specified accuracy after 1/2 hour warm-up and RH<50 %
Altitude	Up to 2 000 m
Relative humidity	80 % max. @ 31°C
Dimensions & weight	Height Width Depth Weight
	131 mm 440 mm 455 mmm approx. 15 kg
Measurement current	
Туре	Sinus wave 50Hz or 60 hz depending on mains voltage
Setting	By steps of 0,5 A
Setting range	from 5,0 to 32,0 A AC - 5,0 to 50,0 A AC with SEFO-5X50A option
Accuracy	\pm (1% +0,1 A) generator and measurement. \pm (1% +0,2 A) with SEFO-5X50A option
Output voltage	
32 A AC generator	6 V AC ±10%
50 A AC generator	8 V AC ±10%
Voltage drop measurement / Range	0,01 à 9,99 V
Resolution	0,01 V
Accuracy (% of reading)	± (1,5% + 0,03V)
Earth bond resistance measurement	
This function calculates the resistive value of the	e circuit from the generated current and the voltage across the sample
Range	0,1 mΩ à 1 Ω
Resolution	0,1 mΩ
Units indication	$m\Omega = 0,001 \ \Omega$
Accuracy (% of reading)	$\pm (1,5\% + 0,5 \text{ m}\Omega)$
Etendue de la mesure de résistance	0,1 mΩ à 1000,0 mΩ
Voltage drop or resistance value threshold settin	ng
An high and a low thresholds can be set for both	n parmeters, either resistance measurement or voltage dropon the device.
Resistance measurement threshold	ajustable from 0,1 m Ω to 1000,0 m Ω
Voltage drop threshold	adjustable from 0,01 to 9,99 V
Temporisation	
PERMANENT mode	Rise time can be set. Output current reaches the setting current value. Test stops on default or i red "STOP" button is pressed on the front panel.
AUTO mode	The test goes through three successive phases: Linear ramp-up to the set value (Rise), output level then stays the same (Steady), progressive decrease to zero (Descente)
Rise-Steady-down steps settings	0,1 à 9999,0 sec. by step of 0,1sec.
Accuracy	± 20 ms
Measurement cycle	
· · · · · · · · · · · · · · · · · · ·	eaker (\geq 25 A or \geq 40 A with SEFO-5X50A option) according to compliance with measurement cycles
The information below indicates the maximum t	times of use of the earth bond test function according to the cycle of use (a 1/2 cycle represents an appli- f a total duration of 2 seconds). Note: all these times are given for a current of 32A. For lower currents, these
	Dermanont 0.5 0.3

Cycle	Permanent	0,5	0,3	
Maximum operation duration	25 minutes	5 hours	infini	

Eaton - Sefelec sas 19 rue des Campanules F-77185 Lognes Siège Social +33 (0)1 64 11 83 40 Service Après-Vente +33 (0)1 64 11 83 48

Eaton - Sefelec GmbH Karl- Bold- Str. 40 D-77855 Achern Zentrale +49 (0)7841 640 77 0 Fax +49 (0)7841 640 77 29

Please learn more about SEFELEC 5x series on : Sefelec.com

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