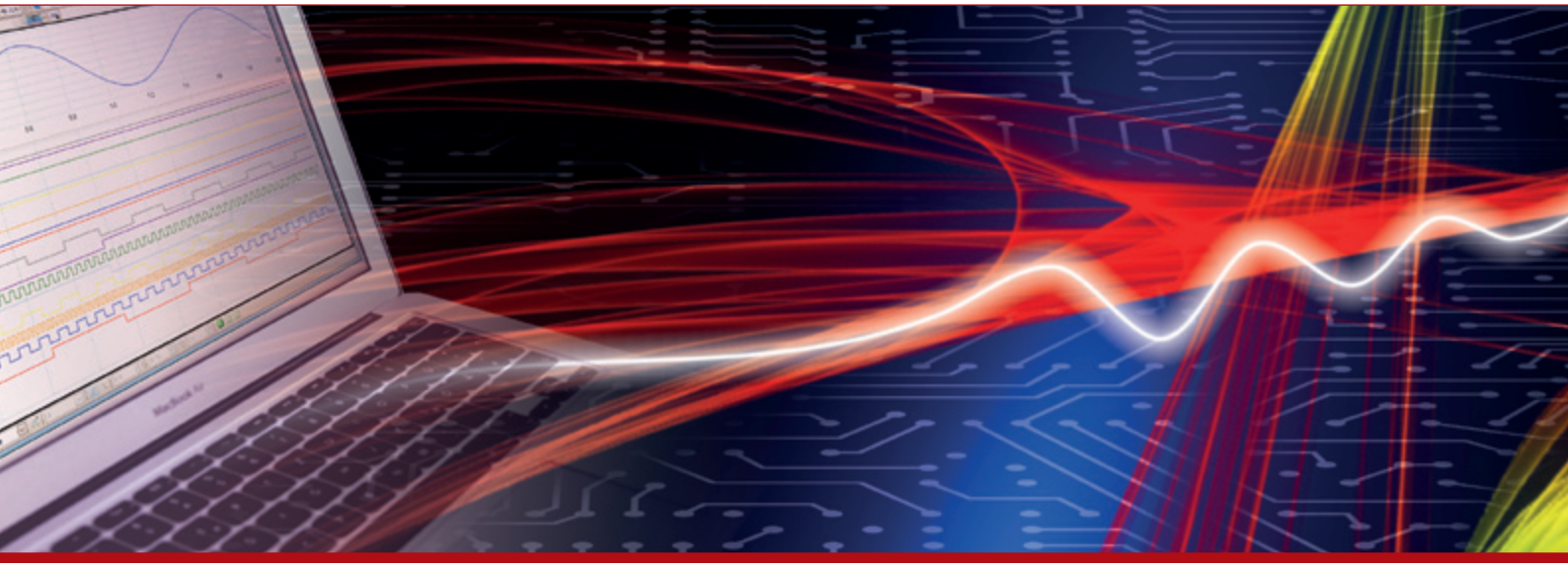
Product Datasheet - Technical Specifications



More information in our Web-Shop at ▸ **www.meilhaus.com**

Your contact

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Rack	Module	Chan
R2	M1	HC
R2	M1	HC2
R2	M1	HC3
R2	M1	HC4
R2	M1	HC5
R2	M1	HC6
R2	M1	HC7
R2	M1	HC8

Datasheet

SEFELEC 64-SC

High Voltage & High Current Scanner by EATON

Les avantages des Scanners SEFELEC:

High density: 8 à 512 channels grouped 8 channels modules and up to 4 racks with 8 modules

8 channels high voltage modules

Maximum voltage 5kVAC 500VA and 6kVDC

Insulation up to 200GΩ under 1000 VDC

Independant Channels can be tied to high potential or grounded or isolated.

8 channels high current modules

Earth Bond Tests under 32A AC max

Programmation & control directly through a SEFELEC 5x

Programmation & control through WINPASS MX software

7" TFT Touchscreen 16 millions colors to set configuration through SEFELEC 5x, tests & results display

DSP emboarded for high speed tests

Switching Relays with high performances

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

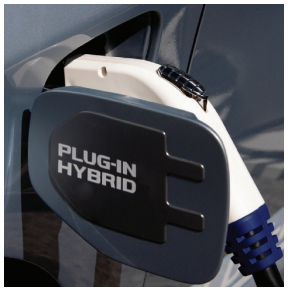
The **SEFELEC 64-C** is EATON's next generation scanner, intended for use with dielectric strength testers, dielectric testers, electrical safety testers, megohmmeters and milliohmmeters in all applications requiring automatic switching of high voltage and/or high current test points.

Its density and high performance make the **SEFELEC 64-SC** an ideal solution for integration into a production line or a control bench.

Programmable via the 7" touch screen of the SEFELEC 5x range, operating the scanner is simple and intuitive.

Supervision by the Winpass MX software also offers the generation of customizable test reports.

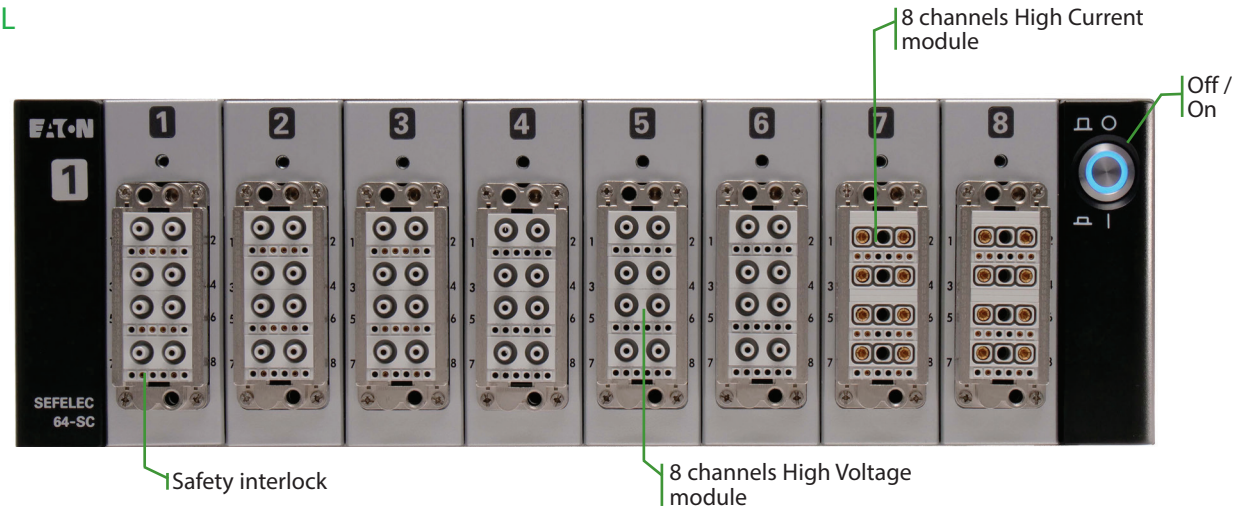
- Modularity: 4 channels
- Controlled by SEFELEC 5x or Winpass via CAN bus
- Version with direct drive of the switching relays (i.e. PLC control)
- Channels auto-detection
- Safety interlock on output connector
- Pre-wired patch cords



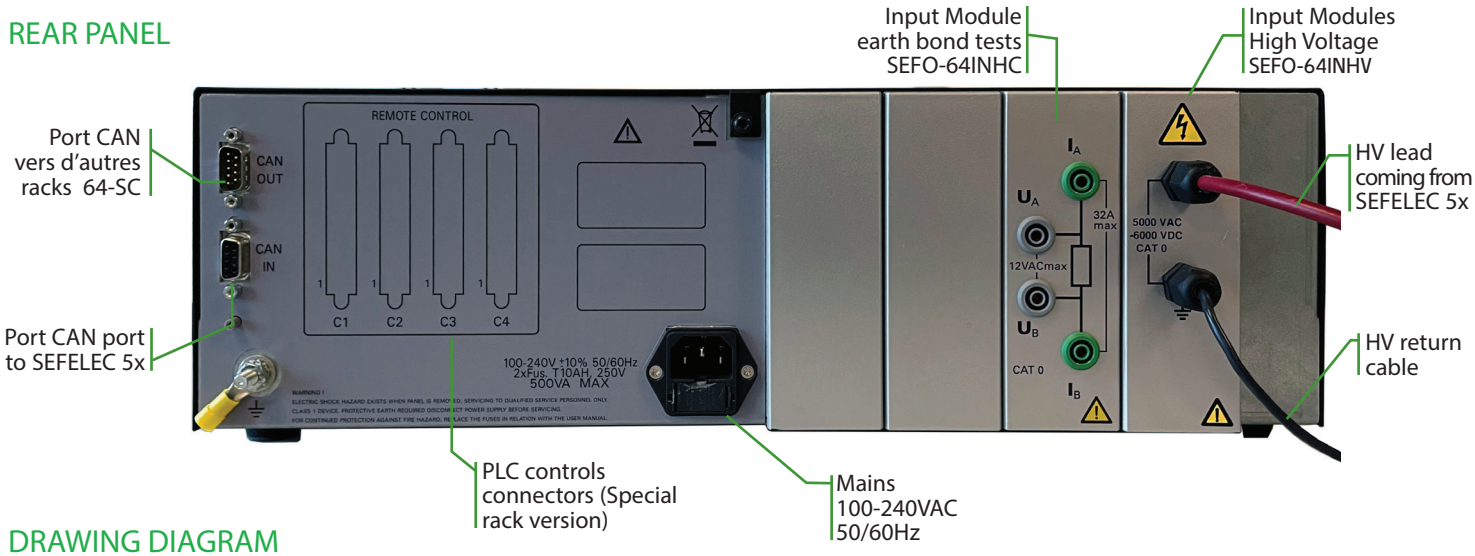
EATON
Powering Business Worldwide

SEFELEC 64-SC : 8 to 512 Channels Scanner - Overview

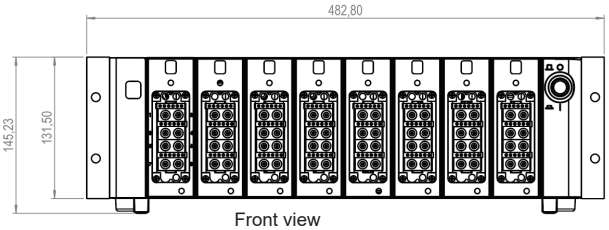
FRONT PANEL



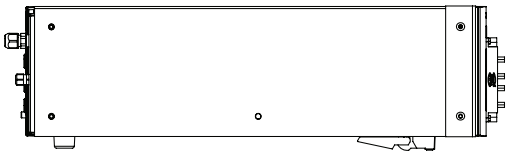
REAR PANEL



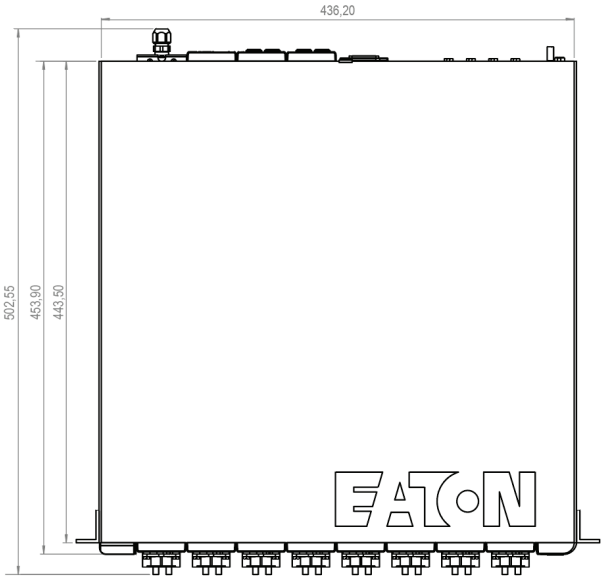
DRAWING DIAGRAM



Front view



Side view

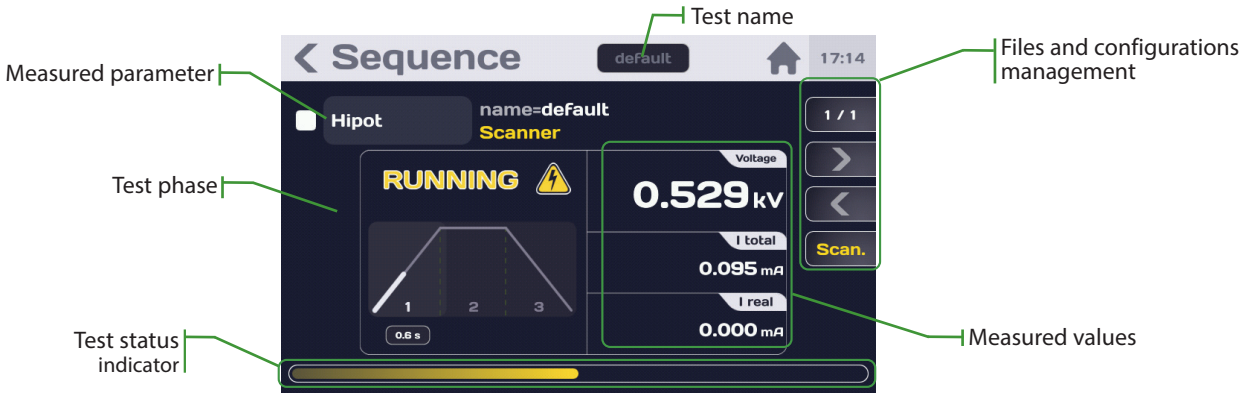


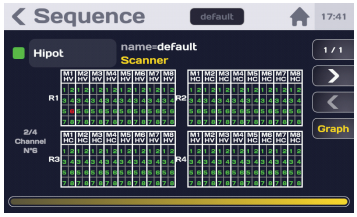
Top view

Please use SEFA-KR for 19" rackmount installation.

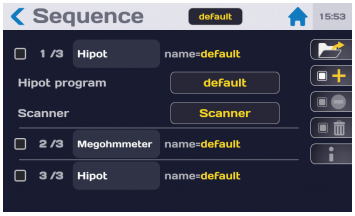
Please consider the depth of the leads connectors in addition to overall dimensions.

Internal Scanner SEFELEC 5x : Touchscreen - Programming and Supervision

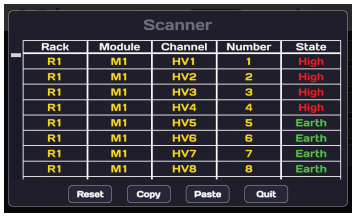




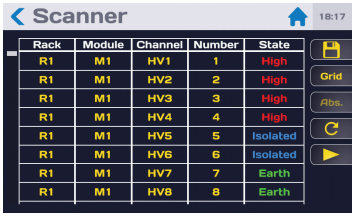
Sequence display



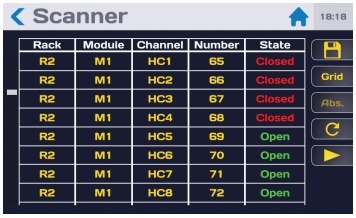
Sequence parameters programming



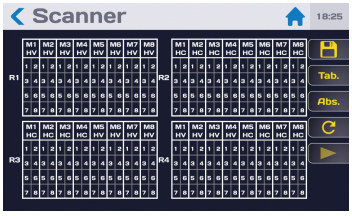
Channels state programming



High voltage module summary table



High current module summary table



Connected racks summary table

SEFELEC 64-C : Modules & leads

SEFM-8EHV or
SEFM-8EHVHO

SEFM-8EHC

SEFA-SCHV4-02

SEFA-SCHC8-05

The terminations of all the leads are bare wires facilitating connection to the terminals of your interfaces/toolings

Rack chassis

SEFELEC 64-SC	Empty rack max. 64 channels (main or extension)
SEFELEC 64-SCPLC	Empty rack max. 64 channels with switching relays direct drive.

Switching Modules

SEFM-8EHV	8 channels Hipot/Insulation module
SEFM-8EHVHO	8 channels Hipot/High Insulation module
SEFM-8EHC	8 channels Earth Bond test module

Inputs / Outputs (measurement)

SEFO-64INHV	Hipot/Insulation input module
SEFO-64INHV10	Hipot/Insulation input module (SEFELEC 1000-M)
SEFO-64INHC	Earth bond test input module
SEFO-64INHVAUX	Hipot/Insulation input module (third part generators)
SEFO-64OUTHV	Hipot/Insulation output module (to extension rack)
SEFO-64OUTHC	Earth bond test output module (to extension rack)

Leads

SEFA-SCHV4-02	4 channels lead Hipot/Insulation, length. 2m
SEFA-SCHV4-05	4 channels lead Hipot/Insulation, length 5m
SEFA-SCHV8-02	8 channels lead Hipot/Insulation, length 2m
SEFA-SCHV8-05	8 channels lead Hipot/Insulation, length 5m
SEFA-SCHC4-02	4 channels lead Earth Bond test, length. 2m
SEFA-SCHC4-05	4 channels lead Earth Bond test, length 5m
SEFA-SCHC8-02	8 channels lead Earth Bond test, length 2m
SEFA-SCHC8-05	8 channels lead Earth Bond test,, length 5m

Accessories & Options

SYWINPASS-MX	Control and supervision WINPASS software
SEFA-KR	19” rackmount kit

SEFELEC 64-SC TECHNICAL SPECIFICATIONS

General Specifications					
Mains	100-240 VAC ±10 % 50 to 60 Hz / single phase				
Mains protection	Temporized double fuse T10AH 250V				
Input power	500 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 / Acoustic noise	80 % max. @ 31°C / 80 dBA max. @ 1m				
Dimensions & Weight	Height	Width	Depth	Weight	
	131 mm	440 mm	455 mmm	Chassis: 12 kg - modules HV: 1,2 kg - HC: 0,6kg	

Hipot & Insulation Switching Function (SEFM-8EHV & SEFM-8EHVHO modules)			
Channels setting	High bus (high voltage)	1 relay Normaly Open (NO)	
	Cold bus (ground)	1 relay Normaly Closed (NC)	
Hipot tests	Max. voltage AC	5 000 VAC 50Hz ou 60Hz	
	Max. voltage DC	6 000 VDC, pôle positif à la masse en DC	
	Max. switching current	2A AC ou DC, en l'absence de tension	
Insulation Resistance measurement	Module	SEFM-8EHV	SEFM-8EHVHO
	Accuracy (See manual for details and measuring durations)	For R < 1 GΩ ≤ (1,5% + (2% x Nbr $_{Modules}$) +1U)	For R < 200 GΩ ≤ (1,5% +1U)
	Guard voltage	1000VDC max.	
Protection resistor	120Ω ±5% on commun high level point and at the termination of the leads		
Switching duration	1 channel switching	5 ms typical	
	All channels switching	20 ms max.	
Channels connectors	via ODU Mac Blue Line Connectors 8 HV channels		
Safety interlock	When the male connector is not installed, the relays cannot be controlled		
Moves capacity - unloaded	> 1 x 10^6		

Earth Bond Test Switching Function (SEFM-8EHC module)		
Channels setting	Current bus	1 relay Normaly Open (NO)
	Voltage bus	1 relay Normaly Open (NO)

Current switching		
Max. voltage	30 VAC	
Max. current (voltage free)	32A AC or DC	
Contact resistance	<10 mΩ	
Coil voltage	24 VDC nominal	
Coil resistance	480 Ω ± 10%	
Switching duration	1 channel switching	15 ms typical
	All channels switching	20 ms max.
Moves capacity (unloaded)	> 3 x 10^4	

Commutation du tension		
Max. voltage	30 VAC	
Max. current (voltage free)	2A AC or DC	
Contact resistance	<50 mΩ	
Coil voltage	24 VDC nominal	
Coil resistance	2880 Ω ± 10%	
Switching duration	1 channel switching	5 ms typical
	All channels switching	20 ms max.
Moves capacity - unloaded	> 5 x 10^5	
Connection to D.U.T.	via ODU Mac Blue Line Connectors 8 HC channels and 8 low level channels (voltage sense)	
2 wires mode (external straps)	8 channels	
4 wires mode	4 channels	
Safety interlock	When the male connector is not installed, the relays cannot be controlled	

FTEN-SEFELEC 64-SC version 1.2 11 / 2023