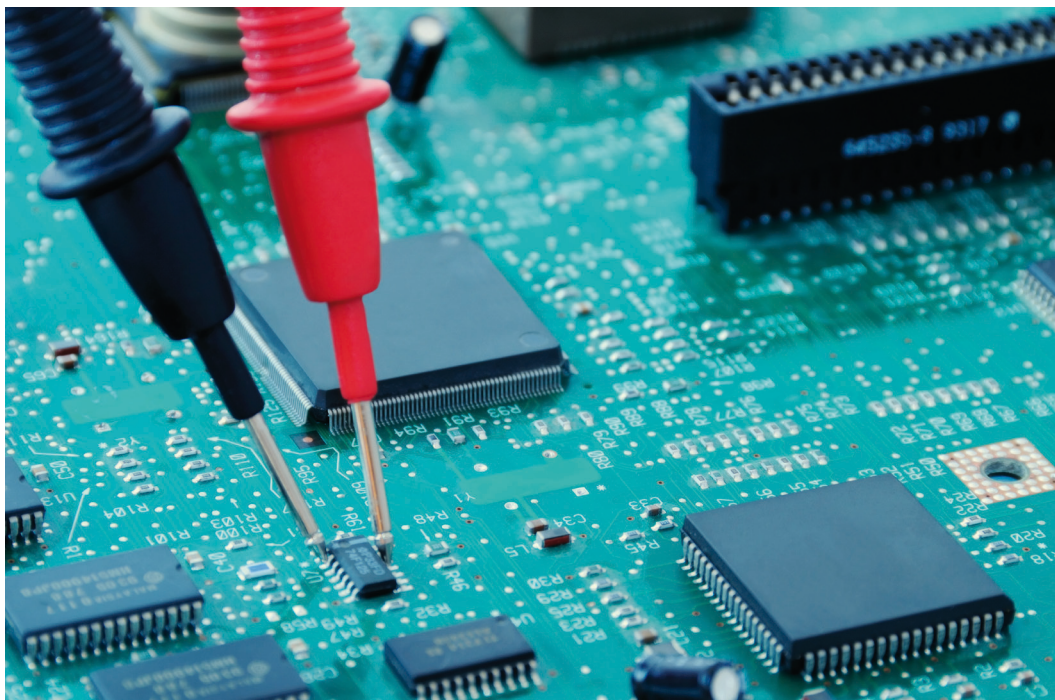




## ***FST-120 Insulation Resistance Tester***

**FST-120** is a multirange insulation resistance meter having a programmable measuring voltage making it to fit almost every measuring task. It's easy to use and single fly wheel programming allows you to preprogram full test sequences also in manual or PLC-controlled automatic testing.

- In-line calibrated measuring module
- GPIB, RS-232, Ethernet or USB interface
- Communication interface between testers
- Timer and ramp function programmable
- Alphanumeric display for easy reading
- One computer interface can control all FST- series testers and accessories
- Programmable output voltage 100 - 1000V DC
- Measuring range up to 10G $\Omega$
- Automatic DUT capacitance charging - no delay



## ***FST-120 Insulation Resistance Tester***

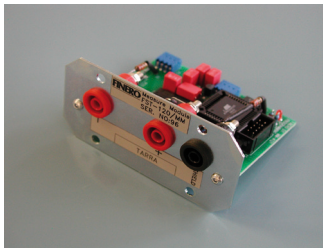
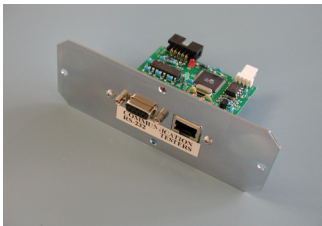
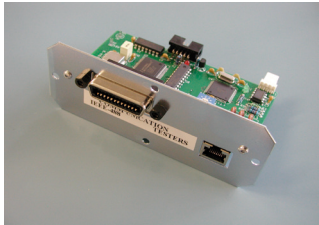
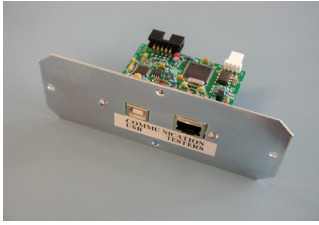
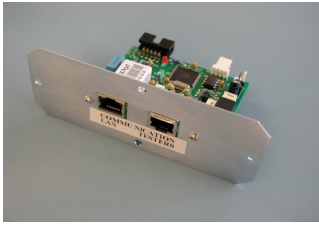
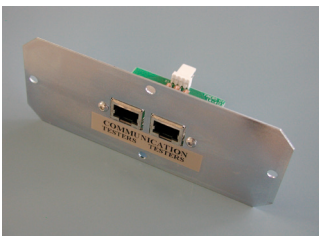
Technical Specification	
Input	230V AC or optionally 115V AC; 50Hz / 60Hz; 30 VA
Output	100 - 1000V DC, freely programmable, fully floating
Maximum test current	3,0mA, current limited, short circuit proof
Accuracy	Better than $\pm 1\%$ from the range (if resistance < 10% of the range)
Analog Display	$\pm 2\%$ of the range to the middle point of the scale, rest $\pm 5\%$
Measuring Ranges	Autorange, 0,5 - 10 M $\Omega$ ; 5 - 100 M $\Omega$ ; 50 - 1000 M $\Omega$ ; 0,5 - 10G $\Omega$
Timer function	OFF or 0,3 - 60s with 0,1s steps
Ramp function	Time controlled 0 - 10s, in front of the test cycle
Internal safety circuit	NC circuit 24V DC
External connections	
Input 24V DC	Start, Stop, External safety loop, 2 programmable inputs
Output, closing relay	Test On, Test Failed
Output, change over relay	Discharge
Output NPN 24V DC/100mA	2 programmable
Auxiliary power	24V DC, max. 100mA
Interfaces	GPB, Ethernet, RS-232, USB
Dimensions	483mm x 410mm x 148mm (w x d x h)
	Rack 19", height 3U, 133mm without feet
Weight	10kg

### ORDERING INFORMATION

Product Name	Art. No.
Insulation Resistance Tester FST-120	2747
Measuring module for FST-120	3939

*All specifications are subject to change without notice*

## *FST-120 Insulation Resistance Tester - Optional Equipment*

Picture	Description and Type	Article Number
	<b>FST-120-MM</b>  Measuring module for FST-120 Measurement voltage 100 - 1000V  Needed with FST-120 Insulation Resistance Tester	3939
	<b>FST RS-232</b> Interface RS-232 for FST Series  - Baud rate 19200, 8, N, 1 - RS-232 connector: D-9 female - RS-485 connector CAT 5 female	2752
	<b>FST GBIP</b> Interface GB-IP for FST Series  - IEEE-488.1-1987 and HS488 compatible - self adapting - 24 pole female connector - RS-485 connector CAT5 female	2753
	<b>USB Interface for FST Series</b>  - USB 1.1 and 2.0 compatible - USB connector type B female - RS-485 connector CAT5 female	2159
	<b>Interface Ethernet for FST Series</b>  - 10 / 100 Mbit Ethernet compatible - Ethernet connector CAT5 female - RS-485 connector CAT5 female	5458
	<b>Interface Tester to Tester to FST Series</b>  2 pcs CAT5 female connectors for other FST-series testers	5397

## ***FST-120 Insulation Resistance Tester - Optional Equipment***

Picture	Description and Type	Article Number
	<p>High Voltage Test Lead 1,5m, red  High Voltage Test Lead 1,5m, black  with crocodile clip 1,5m, red  with crocodile clip 1,5m, black</p> <ul style="list-style-type: none"> <li>- Max voltage    5000V CAT I  (Transient overvoltage 2000V)  1000V CAT III</li> <li>- Max current    10A</li> <li>- Conformity    IEC 61010-031, A type probe.  LVD 93/68/EEC.  Reinforced insulation.</li> <li>- Crocodile clip max voltage 1000V</li> </ul>	2913 2912 2947 5542
	PR1 / HV, ISO, PE, FU Schuko-Socket, 2m cable <ul style="list-style-type: none"> <li>- PE-wire has separate sense line for 4-wire measurement</li> <li>- Separate HV-leads for functional testing</li> <li>- Max voltage 2500V</li> <li>- Instead of schuko socket other types can be used</li> </ul>	1296
	Safety block / HV, ISO, 2m cable <ul style="list-style-type: none"> <li>- L and N lines have a knife type isolation switches</li> <li>- L-line has 13 Amps fuse</li> <li>- L and N are connected together</li> </ul>	2519
	<p><b>FST-150 Relay Matrix Controller</b>  Fully automatic safety and functional testing</p> <p>Connection: 230V or optionally 115V AC; 50Hz / 60VA  Output: 32 NPN type outputs 24V DC / 100mA  Inputs (digital): 8 PNP type inputs 24V DC  Inputs (analog): 8 voltage inputs 0...10V  Dimensions: 483mm x 410mm x 148mm  Weight: 10-15kg depending assembled relays</p> <p>Relay Card RK-3797, 8 pcs relays  Relay Card RK-4069, 8 pcs HV-relays  Relay Card RK-4314, 4 pcs HV-relays</p>	2750        3395 2975 4614

*All specifications are subject to change without notice*