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<https://www.avionteq.com/TEST-FUCHS-IM2FSAL1-Loop-Resistance-Tester>

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safety in test > safety in flight

TESTAUGUS

ELECTRICS / ELECTRONICS

Loop Resistance Tester AIRLINER SET >IM2FSAL1< >IM2FSAL2<



AIRBUS CERTIFIED

Designed for fast and simple checking of loop impedance.

- > Very large, easy to read display
- > Battery powered, rechargeable in situ or removed
- > Galvanically isolated interface for remote control or data exchange
- > ATA Chapter 20-28
- > Automatic residual current compensation
- > Range is switched automatically
- > Search mode for rapid location of faulty connections
- > Including self test unit for function control of the test equipment and the measuring clamps
- > Equivalent AIRBUS P/N TS11194

TECHNICAL DATA

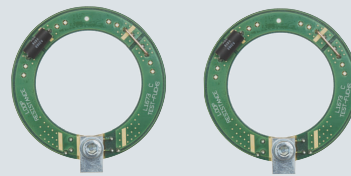
Power operation:	1/N/PE AC 50/60Hz 100 - 240V	Output voltage:	max 70V
Battery:	14.4V Li-Ion	Output current:	max 1A
Charging time:	6 hours	Meas. frequency:	1kHz \pm 10Hz
Measurement range up to:	400m Ω	Accuracy:	depends on clamps (e.g. >1M Ω < \pm 5% o.m.v., but not less than \pm 2m Ω)
Data storage:	90 measured values	Dimensions:	approx 25 x 28 x 16cm
Max. resolution:	0.1m Ω	Weight of equipment:	approx 5kg

Included in standard scope of delivery

Self test UUT

L1673-20A 200m Ω
(TEST-FUCHS item no. 106375852)

L1673-6A 10m Ω
(TEST-FUCHS item no. 106375838)



Measurement cable set "S307073" (TEST-FUCHS item no. 103191770)

with two banana plugs and
test prods for Search Mode



Power-supply-unit "S1311202" (TEST-FUCHS item no. 103070831)

incl. power cable for charging



Battery "AXCOM" (TEST-FUCHS item no. 106220249)



Shoulder strap "1472" (TEST-FUCHS item no. 106330923)



Accessories for Loop Resistance Tester >IM2FSM2<

Transport case "EXPLORER" (TEST-FUCHS item no. 107102007)

Very robust, provided with transport rollers lined with foam
Storage

compartment for: - Loop Resistance Tester >IM2FSM2<
- Charger
- 1 battery
- 3 different clamps

Dimensions: approx 60 x 45 x 33 cm
Weight: approx 12.5kg



Charger for battery incl. Power Cable (TEST-FUCHS item no: 106220099)

Manufacturer: SWIT
Model: SC-302S
Input: AC 100 - 240V; 50/60Hz
Output: DC 14 - 20V; 1.9A
Possible to charge 2 batteries at the same time



Standard Measurement Clamps for Loop Resistance Test Set >IM2FSAL1<

SUPPLY CLAMP >IMZ6<

(TEST-FUCHS item no. 150020590)

SET CONSISTS OF >IMZ6< + >SMZ6<

(TEST-FUCHS item no. 150020591)

CURRENT MEASUREMENT CLAMP

>SMZ6<

(TEST-FUCHS item no. 150020589)

- > For measurement both one Supply and one Current Measuring Clamps are required
- > Apt for use on cables and metal rails of up to approx. 20mm diameter
- > Spring loaded to closed (operating) position
- > Modified Split Standard Clamps Fluke i200
- > Integrated "Measure" button on Supply Clamps
- > Both clamps have arrows showing the current direction



Supply Clamp >IMZ6<



Current Measurement Clamp >SMZ6<

TECHNICAL DATA

Frequency:	for test equipment with 1kHz	Overall dimension: (without cable)	Width: approx. 50mm
Resistance range:	400mΩ		Depth: approx. 30mm
UUT diameter:	max. 20mm		Height: approx. 135mm
Accuracy:	5% o.m.v. but not less than 2mΩ	Jaws opening:	approx. 21mm
Repeatability of UUT variations position in clamp opening ± 3% of full scale ± 1mΩ		Weight:	approx. 700g
		Cable length:	3m

Standard Measurement Clamps for Loop Resistance Test Set >IM2FSAL2<

Note:

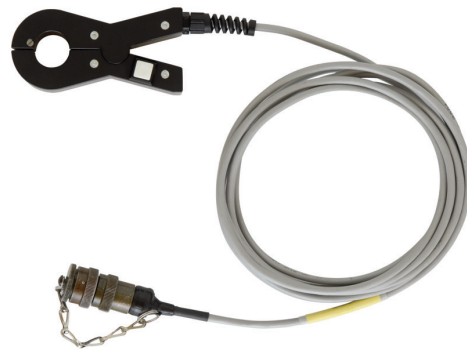
For operation at least one Combined Measurement Clamp or two Single Measurement Clamps are required. The Measurement Clamps are delivered in labelled cable bags.

IMPEDANCE MEASUREMENT CLAMP

>IMZ7<

(TEST-FUCHS item no. 150020514)

- > Symmetric design
- > Apt for use on cables in a confined area of up to approx. 26mm diameter
- > Spring loaded to closed (operating) position
- > Combined Supply and Current Measurement Clamps
- > Symmetric windings for high repeatability
- > "Measure" button



Supply Clamp >IMZ7<



TECHNICAL DATA

Frequency:	for test equipment with 1kHz	Overall dimension (without cable):	Width:	approx. 58mm
Resistance range:	400mΩ		Depth:	approx. 31mm
UUT diameter:	max. 26mm		Height:	approx. 120mm
Accuracy:	± 5% o.m.v. but not less than 2mΩ	Jaws opening:	approx. 31mm	
Repeatability of UUT variations position in clamp opening ± 2% of full scale ± 0.5mΩ		Weight:	approx. 500g	
		Cable length:	3m	

Optional Measurement Clamps for Loop Resistance Test Set >IM2FSAL1< and >IM2FSAL2<

SUPPLY CLAMP >IMZ5<

(TEST-FUCHS item no. 150020064)

CURRENT MEASUREMENT CLAMP >SMZ5<

(TEST-FUCHS item no. 150020065)

SET CONSISTS OF >IMZ5< + >SMZ5<

(TEST-FUCHS item no. 150020607)

- > An IMZ5 Supply Clamp and a SMZ5 Current Measurement Clamp are required for testing
- > Apt for use on cables and metal rails of up to approx. 55mm diameter
- > Spring loaded to closed (operating) position
- > Modified Split Standard Clamps Fluke i800
- > Integrated “Measure” button on the Supply Clamp
- > Both clamps have arrows showing the current direction



Supply Clamp >IMZ5<



Detailed picture of the Standard Clamp Fluke i800



Current Measurement Clamp >SMZ5<

TECHNICAL DATA

Frequency:	for test equipment with 1 or 2kHz	Overall dimension: (without cable)	Width:	approx. 106mm
Resistance range:	400mΩ		Depth:	approx. 40mm
UUT diameter:	max. 55mm		Height:	approx. 230mm
Accuracy:	± 5% o.m.v. but not less than 2mΩ	Jaws opening:	approx. 55mm	
Repeatability of UUT variations position in clamp opening	± 3% of full scale ± 1mΩ	Weight:	approx. 1.6kg	
		Cable length:	3m	