



ISOM PS-62

Portable insulation fault location system
for power networks or control circuits

Insulation monitoring



Full case
ISOM PS-62



Portable locating current injector
ISOM JP-62



Portable locating device
ISOM FP-60

The solution for

- > Industries
- > Energy production
- > Naval, military and railway infrastructures



Strong points

- > Detailed insulation measurement per circuit
- > Fully compatible with the permanent ISOM Digiware system
- > Diagnostics of differential currents on TNS and TT networks
- > Graphic analysis of the locating signal
- > Micro-SD card for backup
- > Improved ergonomics for portable use
- > Power supply of the injector from mains supply or batteries

Conformity to standards

- > IEC 61557-9



Function

The **ISOM PS-62** is a portable system that allows you to:

- Extend the ISOM Digiware system for accurate fault-localisation
- Audit the insulation of power networks or control circuits.

Portable ISOM JP-62 locating current injector

Portable case for the following functions:

- Locating current injector
- Insulation measurement

It performs:

- The localisation of insulation faults in IT systems with single and three-phase AC and DC networks from 20 to 480 V.
- The measurement of differential currents in IT, TT and TN systems on single-phase or three-phase AC networks from 2 mA to 10 A.

ISOM FP-60 portable locating unit

- Extended sensitivity range:
 - IT system: between 0.2 and 25 mA
 - TT/TNS system: between 2 mA and 10 A
- A graphical display to analyse the locating signal.
- Backlight button on the front panel.
- Robustness (protective bumpers provided).

Advantages

Detailed insulation measurement per circuit

The ISOM FP-60 locating unit – with a connection to the electrical network – provides insulation readings of the monitored circuit, showing the resistive and capacitive components for a better assessment of the insulation.

Fully compatible with the permanent ISOM Digiware system

The ISOM FP-60 portable locating unit is compatible with the locating signal generated by an ISOM Digiware L-60.

Diagnostics of differential currents on TNS and TT networks

The ISOM FP-60 locator can also be used to measure the differential current (to check if the residual-current device RCD is working properly).

Graphic analysis of the locating signal

The graphic display shows the locating signal to evaluate the interference level of the monitoring system.

Micro-SD card for backup

With this device, you can save screenshots to a micro-SD card.

Improved ergonomics for portable use

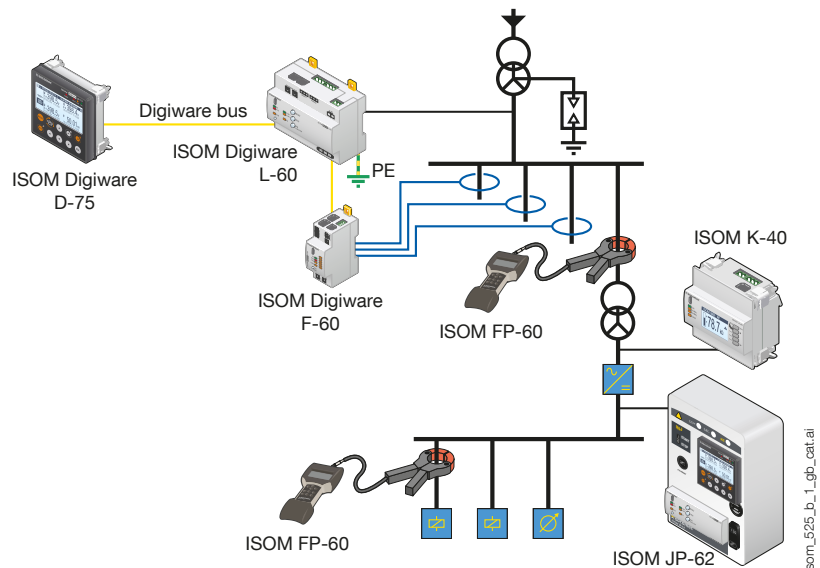
The battery life makes it easier to operate the unit in portable mode. The soft protective bumpers protect the device from occasional shocks.

Power supply of the injector from mains supply or batteries

The injector can be easily moved and connected to an external battery (not included) via its dedicated USB port.

Functions

- Portable standalone detection or in addition to permanently installed ISOM Digiware F-60 locating modules.
- Detects fugitive faults.
- Locates capacitive zero-currents or on protective conductors.
- Prevents and diagnoses accidental tripping of RCDs (knock-on effects, current resulting from filtering...).



Contents



1. Portable rolling case with retractable handle.
2. ISOM JP-62 locating current injector box.
3. ISOM FP-60 portable locating unit.
4. Detection clamps (20 and 52 mm).
5. Wire grabber and set of connecting cables (network, mains).
6. USB charger.

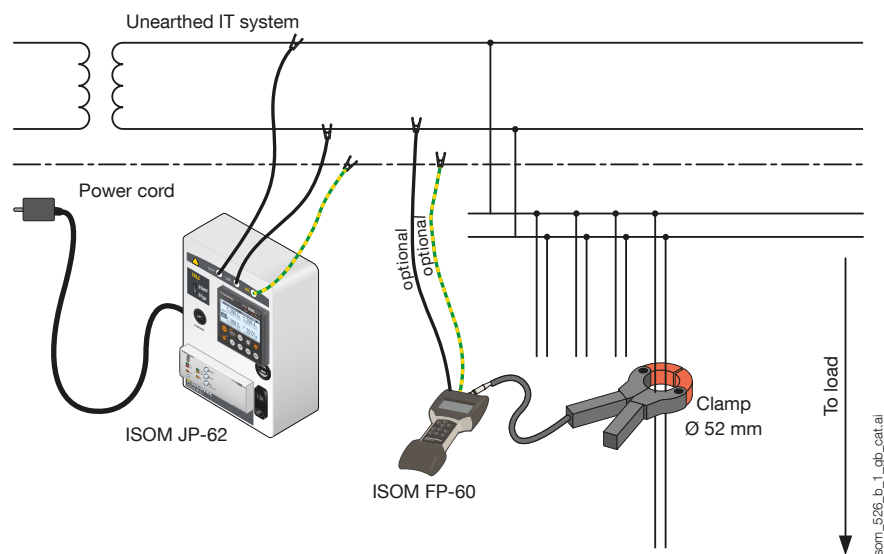
Dimensions

Type	Case
Dimensions W x H x D	546 x 347 x 247 mm
Hardware	Polypropylene
Protection degree	IP 67
Weight (empty case)	7 kg
Weight (full case)	12 kg

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Connections



Characteristics

ISOM JP-62 locating current injector

Insulation	
Rated operating voltage	600 V
Insulating voltage	690 V
Power supply	
Power supply U_s	230 VAC 50-60 Hz or external 5 VDC USB battery (with 20Ah, with approx. 7h back-up) ⁽¹⁾
Monitored network U_n	
Monitored network voltage U_n	AC 24 - 480 V / DC 24 - 480 V
Frequency range	DC, 10-460 Hz
Injection	
Adjustable max. locating current	1, 5, 10 or 25 mA
Operating conditions	
Operating temperature range	-10 ... +55 °C
Storage temperature	-40 ... +70 °C
General features	
Dimensions W x H x D	254 x 180 x 90 mm
Weight	1 000 g

ISOM FP-60 locating unit

Power supply	
Power supply U_s	Li-On battery
Battery life	> 8 hours with backlight on
Measured input: FLD mode	
Measurement range	40 µA at 25 mA
Measured input: AC differential mode	
Measurement range	3 mA at 10 A
Operating conditions	
Operating temperature range	-20 ... +60 °C
Storage temperature	-20 ... +60 °C
General features	
Dimensions W x H x D	315 x 117 x 49 mm
Weight	1 500 g

Detection clamps

Clamp diameter 20 mm	
Diameter	20 mm
Dimensions W x H x D	135 x 65 x 32 mm
Cable length	± 2,000 mm
Output connection	BNC connector
Protection index (standard NF C 20-010, IEC 60529)	IP40
Weight	200 g
Clamp diameter 52 mm	
Diameter	52 mm
Dimensions W x H x D	216 x 111 x 45 mm
Cable length	± 2,000 mm
Output connection	BNC connector
Protection index (standard NF C 20-010, IEC 60529)	IP40
Weight	550 g
Clamp diameter 115 mm	
Diameter	115 mm
Dimensions W x H x D	308 x 150 x 43 mm
Cable length	± 2,000 mm
Output connection	BNC connector
Protection index (standard NF C 20-010, IEC 60529)	IP40
Weight	1,700 g

⁽¹⁾ Battery not supplied with ISOM IP-62.

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References

ISOM PS-62	Reference
Full case ISOM PS-62 containing: ISOM JP-62 + ISOM FP-60 + clamps Ø 20 mm and Ø 52 mm + cabling accessories JP-62 + FP-60	4725 0211
Option	Reference
Clamp Ø 115 mm	4794 1120
Separate components	Reference
ISOM JP-62 locating current injector	4725 0221
ISOM FP-60 locating unit	4725 0230
Clamp Ø 20 mm	4794 1020
Clamp Ø 52 mm	4794 1052
Set of connecting accessories for ISOM JP-62	4725 0293
Set of connecting accessories for ISOM FP-60	4725 0291
Empty case	4725 0292