

## IT filter (1014-289) IT ground isolation filter



- Allows ground fault tracing on IT grounded AC systems
- Operates on systems with frequencies down to 15 Hz
- Operates on systems up to 600 V
- Works with the MGFL100

### DESCRIPTION

The Megger IT Filter 1013-934 allows the MGFL100 ground fault locator to locate earth/ground faults on IT grounded AC systems.

AC earth/ground faults

Specially protected IT networks, such as those found in hospitals, are designed in such a way that any contact with a voltage-carrying line is harmless. In the event of a short-to-earth, this protection reduces current flow to zero.

Important control, signal, and supply systems, such as those for railway installations, power plants, or other industrial facilities, are designed to be potential-free and are monitored by earth/ground fault indicators to ensure safe and uninterrupted operation.

Short-to-ground faults in IT networks, control lines or, for example, signal lines in railways are referred to as 'earth/ground faults'.

While a single earth/ground fault will not disrupt the service, a second earth/ground fault carries a high risk of partial or complete installation breakdown. For this reason, any earth/ground fault must be located and repaired as fast as possible. The MGFL100 allows tracing of these faults by directly coupling to the line. This can be done either off-line or on-line using a coupling filter.

### FEATURES AND BENEFITS

- Operates on systems from 60 Hz down to 15 Hz.
- Supports ground fault locating on rail systems that operate on 16.67 Hz.
- Operates on systems up to 600 V.
- Connects between the MGFL100 transmitter's output and the circuit with the earth/ground fault.
- Isolates the MGFL100 transmitter from the AC circuit and allows injection of a 5.12 Hz trace signal.
- When used in conjunction with the capacitive pickup, it will allow the MGFL100 receiver to identify and alarm when placed on the circuit with the earth/ground fault.

### APPLICATIONS

- (AC) IT networks
  - Hospitals
  - Railways
  - Maritime
  - Industrial facilities

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### SPECIFICATIONS

<b>Filter resistance</b>	150 Ω
<b>Filter capacitance</b>	
Shunt Capacitance	2.5 µfd
Series Capacitance	20 µfd
<b>Filter inductance</b>	48 H
<b>Operating frequency range</b>	15 Hz to 70 Hz
<b>Operating voltage range</b>	0-600 V RMS
<b>Environmental</b>	
Operating	0 ° C to 50 ° C (32 ° F to 122 ° F)
Storage	-20 ° C to 60 ° C (-4 ° F to +140 ° F)
Relative humidity	0-95 % non-condensing
Altitude	2000 m
<b>Case</b>	IP51 Ruggedized plastic case
<b>Safety/EMC/Vibration</b>	Meets the requirements of IEC61010-1, CE, CAT IV 600
<b>Weight/Dimensions</b>	
<b>Dimensions</b>	25.4 cm x 13.34 cm x 17.27 cm (10 in" x 5.25 in" x 6.8 in")
<b>Weight</b>	5.10 kg max (11.25 lbs max)
<b>Compliance</b>	IEC61010 CE Certified

### ORDERING INFORMATION

Item (QTY)	Cat. No.	Accessories
Catalog Number		
IT Filter	1014-289	

Includes: IT Filter, filter to transmitter connection lead, and operations manual.