

## Product Datasheet - Technical Specifications



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# METRAFUSE FD PRO

## Fuse and Circuit Breaker Detector

3-447-082-03  
2/10.20

- Handy test instrument
- Speedy identification of circuit breakers and fuses
- Receiver auto-tunes sensitivity
- Clear result indication with LED and beeping
- Works over cable runs of several hundred meters
- Auto power off function (receiver)
- Ferrite transducer scanning tip (receiver)



### Applications

The METRAFUSE FD PRO is a test instrument used for the speedy identification of which fuse or circuit breaker is protecting a circuit.

The METRAFUSE FD PRO consists of two parts: a receiver and a transmitter.

The transmitter is connected to the circuit under test and uses the AC circuit's power to generate and inject a modified high frequency signal into the live conductor. The signal will not adversely affect other equipment but is powerful enough to work over cable runs of several hundred meters.

The receiver is used to detect the signal from the transmitter at the distribution board. When its scanning tip is put in contact with the fuse or circuit breaker that is connected to the circuit under test, the receiver will indicate the presence of the transmitter signal both by LED and beeping.

### Features

#### Easy Operation

Operation is very easy. The METRAFUSE FD PRO can find fuses or circuit breakers across cable runs of several hundred meters and indicates the result clearly by LED and beeping.

#### Auto Power off Function

While the transmitter is powered by the circuit under test, The receiver is battery powered. To maximize battery life, it will automatically switch off after six minutes of inactivity.

#### Bag

The METRAFUSE FD PRO comes with a bag for safe storage and easy transport.

#### Connection to Outlet or Bare Wires

The transmitter can be connected to an outlet of the circuit under test with the included mains cable.

Alternatively it can be connected to bare wires using the included test probes that also come with alligator clips. The test probes feature fuses for extra security.

# METRAFUSE FD PRO

## Fuse and Circuit Breaker Detector

### Technical Data

#### Mechanical Design

|                        |             |                        |
|------------------------|-------------|------------------------|
| Housing<br>(W × H × D) | Transmitter | 160 × 85 × 35 cm       |
|                        | Receiver    | 210 × 50 × 35 cm       |
| Weight                 | Transmitter | 166 g                  |
|                        | Receiver    | 78 g (without battery) |
| Protection             | IP20        |                        |

#### Ambient Conditions

|                       |                                      |
|-----------------------|--------------------------------------|
| Operating temperature | 0 °C ... +40 °C                      |
| Storage temperature   | -20 °C ... +60 °C                    |
| Relative humidity     | max. 75%,<br>no condensation allowed |
| Elevation             | max. 2000 m                          |
| Place of use          | Indoor use only                      |

#### Power

|                         |   |
|-------------------------|---|
| Receiver supply         | alkaline battery 9 V<br>type PP3/MN 1604/6F22 or equivalent |
| Receiver auto power off | after 6 minutes   |
| Transmitter supply      | Circuit under test<br>(100 V ...250 V AC; 50 Hz ... 60 Hz)  |
| Transmitter current     | <20 mA  |

#### Electrical Safety

|                     |                |
|---------------------|----------------|
| Measuring category  | CAT III, 250 V |
| Pollution degree    | 2              |
| Protection category | II             |

#### Electromagnetic Compatibility (EMC)

|                                  |  |
|----------------------------------|--|
| Interference emission / immunity | EN 61326-1: 2013 resp.<br>EN 61326-2-2: 2013 |
|----------------------------------|--|

### Relevant Standards

The instrument has been manufactured and tested in accordance with the following safety regulations:

|  |  |
|--|--|
| DIN EN 60529<br>VDE 0470-1   | Test instruments and test procedures<br>Degrees of protection provided by enclosures (IP code)   |
| IEC 61010-1: 2010<br>DIN EN 61010-1:<br>2010<br>VDE 0411-1: 2010                   | Safety requirements for electrical equipment for measurement, control and laboratory use. Part 1: General requirements   |
| IEC 61010-2-030:<br>2010<br>DIN EN 61010-2-030:<br>2010<br>VDE 0411-2-030:<br>2010 | Safety requirements for electrical equipment for measurement, control and laboratory use. Part 2-030: Particular requirements for testing and measuring circuits                             |
| IEC 61326-2-2:<br>2013<br>DIN EN 61326-2-2:<br>2013<br>VDE 0843-20-2-2:<br>2013    | Electrical equipment for measurement, control and laboratory use - EMC requirements. Part 2-2: Particular requirements for portable test equipment used in low-voltage distribution systems. |

### Test probe set

|                     |   |
|---------------------|---|
| Fuse                | Super-Fast (FF) Safety Fuses,<br>10 A, 600 V, 6,3 × 32 mm |
| Measuring category: | CAT III 1000 V, CAT IV 600 V                              |

### Scope of Delivery

- 1 METRAFUSE FD PRO receiver
- 1 Alkaline battery, 9 V
- 1 METRAFUSE FD PRO transmitter
- 1 Mains lead cable for transmitter
- 1 Fused test probe set incl. alligator clips
- 1 Bag
- 1 Operating instructions

### Order Information

|                  |       |
|------------------|-------|
| METRAFUSE FD PRO | M660C |
|------------------|-------|