

TECHNICAL DATA

# Fluke 289 IMSK Industrial Multimeter Service Kit



## 289 IMSK KIT HIGHLIGHTS

- Fluke 289 Multimeter has true-rms accuracy and advanced functionality to give you the results you need
- Fluke-i400 AC 400A Current Clamp turns the 289 into a clamp meter
- Select accessories like temperature probe, test leads and alligator clips included

## Product overview

This combo kit is built around the Fluke 289, Fluke's next-gen high performance industrial logging multimeter, combined with the i400 AC current clamp. Together, they help solve complex problems in electronics, plant automation, power distribution, and electro-mechanical equipment. The kit includes special accessories to make you even more productive on the job and will save over 15 % compared with the individually priced items. Plus, you'll be working with the most trusted tools in the world.

## Fluke 289 True-rms Multimeter is equipped with high-performance functionality.

- Provides the ability to log data and graphically
- TrendCapture graphically displays logged data session to quickly determine whether anomalies may have occurred
- Review up 10,000 recorded events and logged readings with on-board TrendCapture
- Zoom on trend provides unprecedented ability to view and analyze TrendCapture data; zoom in up to 14 times
- Low Pass filter for accurate voltage and frequency measurements at the same time on adjustable speed motor drives and other electrically noisy equipment
- Includes premium test leads, alligator clips, and amp jack plugs

## Fluke-i400 AC 400A Current Clamp turns the Fluke 289 into a clamp meter

- The current clamp provides accurate current measurements up to 400 A ac without breaking electric circuits
- Allows taking measurements safely with industry standard safety ratings

## Select accessories like temperature probe, test leads and alligator clips

- TL71 Premium Test Lead Set with distinctive comfort grip probes, they are heat and cold resistant with safety ratings up to CAT III 1000 V
- AC175 Alligator Clips provides the flexibility to configure leads to the individual needs

## Key safety features

- Safety rated CAT III 1000 V, CAT IV 600 V meter to get you home safely from the job

## Warranty

- Lifetime warranty

## Fluke 289 specifications

| General specifications                                     |  |                             |
|--|--|-----------------------------|
| Maximum voltage<br>(between any terminal and earth ground) | 1000 V   |                             |
| Battery type   | 6 AA alkaline batteries, IEC LR6   |                             |
| Battery life   | 100 hours minimum, 200 hours in logging mode   |                             |
| Temperature  |  |                             |
| Operating  | -20 °C to 55 °C  |                             |
| Storage  | -40 °C to 60 °C  |                             |
| Relative humidity  | 0 to 90 % (0 °C to 37 °C)<br>0 to 65 % (37 °C to 45 °C)<br>0 to 45 % (45 °C to 55 °C)    |                             |
| Electromagnetic compatibility                              | IEC 61326-1: Portable  |                             |
| Size (HxWxL)   | 22.2 cm x 10.2 cm x 6 cm (8.75 in x 4.03 in x 2.38 in)                                   |                             |
| Weight   | 870.9 g (28 oz)  |                             |
| Detailed specifications                                    |  |                             |
| Function   | Range and resolution   | Best accuracy               |
| DC volts<br>AC volts                                       | 50.000 mV, 500.00 mV, 5.0000 V, 50.000 V,<br>500.00 V, 1000.0 V                          | 0.025 %<br>0.4 % (true-rms) |
| DC current<br>AC current                                   | 500.00 µA, 5000.0 µA, 50.000 mA, 400.00 mA,<br>5.0000 A, 10.000 A                        | 0.15 %<br>0.7 % (true-rms)  |
| Temperature<br>(excluding probe)                           | -200.0 °C to 1350.0 °C (-328.0 °F to 2462.0 °F)  | 1.0 %                       |
| Resistance   | 50.000 Ω, 500.00 Ω, 5.0000 kΩ, 50.000 kΩ,<br>500.00 kΩ, 5.0000 MΩ, 50.00 MΩ, 500.0 MΩ    | 0.05 %                      |
| Capacitance  | 1.000 nF, 10.00 nF, 100.0 nF, 1.000 µF, 10.00 µF,<br>100.0 µF, 1000 µF, 10.00 mF, 100 mF | 1.0 %                       |
| Frequency  | 99.999 Hz, 999.99 Hz, 9.9999 kHz, 99.999 kHz,<br>999.99 kHz                              | .005 %                      |
| Additional features  |  |                             |
| Multiple on screen displays                                | Yes  |                             |
| True-rms ac bandwidth                                      | 100 kHz  |                             |
| dBV/dBm  | Yes  |                             |
| DC mV resolution   | 1 µV   |                             |
| Megohm range   | up to 500 MΩ   |                             |
| Conductance  | 50.00 nS   |                             |
| Continuity beeper  | Yes  |                             |
| Battery/fuse access  | Battery/fuse   |                             |
| Elapse time clock  | Yes  |                             |
| Time of day clock  | Yes  |                             |
| Min-max-avg  | Yes  |                             |
| Duty cycle   | Yes  |                             |
| Pulse width  | Yes  |                             |
| Isolated optical interface                                 | Yes  |                             |
| Auto/touch hold  | Yes  |                             |
| Reading memory   | Yes  |                             |
| Log to PC  | Yes  |                             |
| Interval/event logging                                     | Yes  |                             |
| Logging memory   | up to 15,000 readings  |                             |

## Fluke i400 specifications

| <b>Specifications</b>                                   |   |
|---|---|
| Nominal current range                                   | 400 A   |
| Continuous current range                                | 1 A - 400 A   |
| Maximum non-destructive current                         | 1000 A  |
| Lowest measurable current                               | 1 A   |
| Basic accuracy  | 2 % + 0.06 A<br>(45-400 Hz)<br>(% reading + floor spec)                         |
| Useable frequency                                       | 5 Hz - 20 kHz   |
| Output level(s)   | 1 mA/A  |
| <b>Safety specifications</b>                            |   |
| Safety  | IEC 61010-1: Pollution degree 2<br>IEC 61010-2-032 CAT IV 600 V, CAT III 1000 V |
| Maximum voltage (between any terminal and earth ground) | 1000 V  |
| <b>Mechanical and general specifications</b>            |   |
| Warranty  | 1 year  |
| Maximum conductor diameter                              | 32 mm (1.25 in)   |
| Maximum conductor size (busbar)                         | 750 MCM   |
| Output cable length                                     | 1.5 m (59 in)   |
| Shrouded banana plugs                                   | Yes   |

## Ordering information

**Fluke-289/IMSK Industrial Multimeter Service Kit**

### Included

**Fluke 289** Industrial Multimeter

**Fluke i400** 400 A AC Current Clamp

**TL71** Hard Point Test Lead Set

**AC175** Threaded Alligator Clip Set

**Fluke.** *Keeping your world up and running.*®

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