

# Fluke 179 IMSK Industrial Multimeter Service Kit



## TWO VERSATILE, RELIABLE TOOLS TO HELP SOLVE YOUR FRONT-LINE TROUBLESHOOTING PROBLEMS

- A full-featured, true-rms multimeter combined with a rugged, reliable basic true-rms clamp meter
- Ideal for troubleshooting electrical and electronic systems
- Measures up to 1000 V ac or dc (179 DMM) and up to 400 A ac (323 clamp)

#### The right tools, right where you need them

#### Fluke 179 IMSK Industrial Multimeter Service Kit

This kit combines the Fluke 179 True-RMS DMM and the Fluke 323 True-RMS clamp meter. Both tools are rugged, reliable and accurate, as well as extremely easy to operate.

#### Fluke 179 True-RMS Digital Multimeter

The Fluke 179 is the preferred solution for professional technicians around the world. It includes the features you need to troubleshoot and repair electrical and electronic systems:

- Delivers accurate true-rms AC current and voltage plus frequency, capacitance, resistance, continuity and diode measurements
- Increases productivity with manual and automatic ranging, Display Hold, Auto Hold, and Min/Max-average recording

#### Fluke 323 True-RMS Clamp Meter

The Fluke 323 clamp meter provides true-rms measurements, optimized ergonomics, and large display for efficient troubleshooting. It's designed to perform in the toughest environments and provide noise-free, reliable results, so you can confidently diagnose problems almost anywhere.

- $\bullet$  Rugged, reliable basic true-rms clamp meter for measuring current up to 400  $\mbox{\ensuremath{A}}$
- Measures AC current to 400 A
- · Measures AC voltage and DC voltage to 600 V
- Provides true-rms AC voltage and current for accurate measurements on non-linear signals
- Measures resistance to 4  $k\Omega$  with continuity detection
- Features a CAT III 600 V, CAT IV 300 V safety rating





## **Specifications**

#### Fluke 179 True-RMS Digital Multimeter

Voltage DC	Detailed specifications		
Voltage AC		Accuracy <sup>1</sup>	± (0.09 % + 2)
Voltage AC		Max. resolution	0.1 mV
Max. resolution		Maximum	1000 V
Maximum   1000 V	Voltage AC	Accuracy <sup>1</sup>	± (1.0 % + 3)
Current DC         Accuracy¹         ± (1.0 % + 3)           Max. resolution         0.01 mA           Current AC         Accuracy¹         ± (1.5 % + 3)           Max. resolution         0.01 mA           Maximum         10 A           Resistance         Accuracy¹         ± (0.9 % + 1)           Max resolution         0.1 Ω           Maximum         50 MΩ           Capacitance         Accuracy¹         ± (1.2 % + 2)           Max. resolution         1 nF           Maximum         10,000 μF           Frequency         ± (0.1 % + 1)           Max. resolution         0.01 Hz           Maximum         100 kHz           Temperature         Accuracy¹         ± (1.0 % + 10)           Maximum         100 kHz           Temperature         Accuracy¹         ± (1.0 % + 10)           Max resolution         0.1 °c           Maximum         100 kHz           Temperature         4ccuracy¹         ± (1.0 % + 10)           Max resolution         0.1 °c           Maximum         100 kHz           Temperature         -0° C to +50° C           Storage temperature         -0° C to +50° C           Storage temperature <td>Max. resolution</td> <td>0.1 mV</td>		Max. resolution	0.1 mV
Max. resolution   0.01 mA   10 A   10 A		Maximum	1000 V
Current AC         Accuracy¹         ± (1.5 % + 3)           Max resolution         .0.01 mA           Maximum         10 A           Resistance         Accuracy¹         ± (0.9 % + 1)           Max resolution         0.1 Ω           Maximum         50 MΩ           Capacitance         Accuracy¹         ± (1.2 % + 2)           Max resolution         1 nF           Maximum         10,000 μF           Frequency         Accuracy¹         ± (0.1 % + 1)           Max resolution         .0.1 Hz           Maximum         100 kHz           Temperature         Accuracy¹         ± (1.0 % + 10)           Max resolution         0.1 °C           Final contact in the properties of the propertie	Current DC	Accuracy <sup>1</sup>	± (1.0 % + 3)
Current AC         Accuracy¹         ± (1.5 % + 3)           Max. resolution         0.01 mA           Resistance         Accuracy¹         ± (0.9 % + 1)           Max. resolution         0.1 Ω           Maximum         50 MΩ           Capacitance         Accuracy¹         ± (1.2 % + 2)           Max. resolution         1 nF           Maximum         10,000 μF           Frequency         Accuracy¹         ± (0.1 % + 1)           Max. resolution         0.01 Hz           Maximum         100 kHz           Temperature         Accuracy¹         ± (1.0 % + 10)           Max. resolution         0.1 °C           Maximum         -0.0 kHz           Temperature         Accuracy¹         ± (1.0 % + 10)           Max. resolution         0.1 °C           Maximum         -0.0 °C           Environmental specifications         To C to +50° C           Storage temperature         -30° C to +60° C           Humidity (without condensation)         0 % - 90 % (0° C - 35° C)           0 % - 70 % (35° C - 50° C)         To C to +50° C           Safety specifications         EN 61010-1 to 1000 V CAT III           EN 61010-1 to 600 V CAT IV         To C to +50° C		Max. resolution	0.01 mA
Max. resolution   0.01 mA   10 A		Maximum	10 A
Maximum         10 A           Resistance         Accuracy¹         ± (0.9 % + 1)           Max. resolution         0.1 Ω           Maximum         50 MΩ           Capacitance         Accuracy¹         ± (1.2 % + 2)           Max. resolution         1 nF           Maximum         10,000 μF           Frequency         Accuracy¹         ± (0.1 % + 1)           Max resolution         0.01 Hz           Maximum         100 kHz           Temperature         Accuracy¹         ± (1.0 % + 10)           Max resolution         0.1 °C           Maximum         -40 °C / 400 °C           Environmental specifications           Operating temperature         -10° C to +50° C           Storage temperature         -30° C to +60° C           Humidity (without condensation)         0 % - 90 % (0° C - 38° C)           0 % - 70 % (38° C - 50° C)         Safety specifications           Overvoltage category         EN 61010-1 to 1000 V CAT III           EN 61010-1 to 600 V CAT IV           Agency approvals         U, CSA, TÜV listed and VDE Pending           Mechanical and general specifications           Size         43 x 90 x 185 mm           Weight         <	Current AC	Accuracy <sup>1</sup>	± (1.5 % + 3)
Accuracy¹		Max. resolution	0.01 mA
Max. resolution   0.1 Ω   Maximum   50 MΩ		Maximum	10 A
Capacitance         Accuracy¹         ± (1.2 % + 2)           Max. resolution         1 nF           Maximum         10,000 μF           Prequency         Accuracy¹         ± (0.1 % + 1)           Max. resolution         0.01 Hz           Maximum         100 kHz           Temperature         Accuracy¹         ± (1.0 % + 10)           Max. resolution         0.1 °C           Maximum         −40 °C / 400 °C           Environmental specifications           Coperating temperature           −30° C to +60° C           Humidity (without condensation)         0 % − 90 % (0° C − 35° C)           0 % − 70 % (35° C − 50° C)           Safety specifications           Covervoltage category         EN 61010−1 to 1000 V CAT III           EN 61010−1 to 600 V CAT IV         Agency approvals           Mechanical and general specifications           Size         43 x 90 x 185 mm           Weight         420 g           Warranty         Lifetime	Resistance	Accuracy <sup>1</sup>	± (0.9 % + 1)
Capacitance         Accuracy¹         ± (1.2 % + 2)           Max. resolution         1 nF           Maximum         10,000 µF           Frequency         Accuracy¹         ± (0.1 % + 1)           Max. resolution         0.01 Hz           Maximum         100 kHz           Temperature         Accuracy¹         ± (1.0 % + 10)           Max. resolution         0.1 °C           Maximum         -40 °C / 400 °C           Environmental specifications           Operating temperature         -10° C to +50° C           Storage temperature         -30° C to +60° C           Humidity (without condensation)         0 % -90 % (0° C - 35° C)           O % - 90 % (0° C - 35° C)         O % - 70 % (35° C - 50° C)           Safety specifications           Overvoltage category         EN 61010-1 to 1000 V CAT III EN 61010-1 to 600 V CAT IV           Agency approvals         UL, CSA, TŪV listed and VDE Pending           Mechanical and general specifications           Size         43 x 90 x 185 mm           Weight         420 g           Warranty         Lifetime		Max. resolution	0.1 Ω
Max. resolution   1 nF   Maximum   10,000 μF		Maximum	50 MΩ
Maximum	Capacitance	Accuracy <sup>1</sup>	± (1.2 % + 2)
Frequency		Max. resolution	1 nF
Max. resolution         0.01 Hz           Maximum         100 kHz           Temperature         Accuracy¹         ± (1.0 % + 10)           Max. resolution         0.1 °C           Maximum         -40 °C / 400 °C           Environmental specifications           Operating temperature         -10° C to +50° C           Storage temperature         -30° C to +60° C           Humidity (without condensation)         0 % - 90 % (0° C - 35° C)           0 % - 70 % (35° C - 50° C)           Safety specifications           Overvoltage category         EN 61010-1 to 1000 V CAT III           EN 61010-1 to 600 V CAT IV           Agency approvals         UL, CSA, TÜV listed and VDE Pending           Mechanical and general specifications           Size         43 x 90 x 185 mm           Weight         420 g           Warranty         Lifetime		Maximum	10,000 μF
Maximum   100 kHz	Frequency	Accuracy <sup>1</sup>	± (0.1 % + 1)
Temperature		Max. resolution	0.01 Hz
Max. resolution         0.1 °C           Maximum         -40 °C / 400 °C           Environmental specifications           Operating temperature         -10° C to +50° C           Storage temperature         -30° C to +60° C           Humidity (without condensation)         0 % - 90 % (0° C - 35° C) 0 % - 70 % (35° C - 50° C)           Safety specifications           Overvoltage category         EN 61010-1 to 1000 V CAT III EN 61010-1 to 600 V CAT IV           Agency approvals         UL, CSA, TÜV listed and VDE Pending           Mechanical and general specifications           Size         43 x 90 x 185 mm           Weight         420 g           Warranty         Lifetime		Maximum	100 kHz
Maximum -40 °C / 400 °C   Environmental specifications   Operating temperature -10° C to +50° C   Storage temperature -30° C to +60° C   Humidity (without condensation) 0 % - 90 % (0° C - 35° C) 0 % - 70 % (35° C - 50° C)   Safety specifications   Overvoltage category EN 61010-1 to 1000 V CAT III EN 61010-1 to 600 V CAT IV   Agency approvals UL, CSA, TÜV listed and VDE Pending   Mechanical and general specifications Size   43 x 90 x 185 mm 420 g   Warranty Lifetime	Temperature	Accuracy <sup>1</sup>	± (1.0 % + 10)
Environmental specifications  Operating temperature -10° C to +50° C  Storage temperature -30° C to +60° C  Humidity (without condensation) 0 % - 90 % (0° C - 35° C) 0 % - 70 % (35° C - 50° C)  Safety specifications  Overvoltage category EN 61010-1 to 1000 V CAT III EN 61010-1 to 600 V CAT IV  Agency approvals UL, CSA, TÜV listed and VDE Pending  Mechanical and general specifications  Size 43 x 90 x 185 mm  Weight 420 g  Warranty Lifetime		Max. resolution	0.1 °C
Operating temperature -10° C to +50° C  Storage temperature -30° C to +60° C  Humidity (without condensation) 0 % - 90 % (0° C - 35° C) 0 % - 70 % (35° C - 50° C)  Safety specifications  Overvoltage category EN 61010-1 to 1000 V CAT III EN 61010-1 to 600 V CAT IV  Agency approvals UL, CSA, TÜV listed and VDE Pending  Mechanical and general specifications  Size 43 x 90 x 185 mm  Weight 420 g  Warranty Lifetime		Maximum	-40 °C / 400 °C
Storage temperature  -30° C to +60° C  Humidity (without condensation)  0 % - 90 % (0° C - 35° C) 0 % - 70 % (35° C - 50° C)  Safety specifications  Overvoltage category  EN 61010-1 to 1000 V CAT III EN 61010-1 to 600 V CAT IV  Agency approvals  UL, CSA, TÜV listed and VDE Pending  Mechanical and general specifications  Size  43 x 90 x 185 mm  Weight  420 g  Warranty  Lifetime	Environmental specifications		
Humidity (without condensation)  0 % - 90 % (0° C - 35° C) 0 % - 70 % (35° C - 50° C)  Safety specifications  Overvoltage category  EN 61010-1 to 1000 V CAT III EN 61010-1 to 600 V CAT IV  Agency approvals  UL, CSA, TÜV listed and VDE Pending  Mechanical and general specifications  Size  43 x 90 x 185 mm  Weight  420 g  Warranty  Lifetime	Operating temperature	-10° C to +50° C	
Safety specifications  Overvoltage category  EN 61010-1 to 1000 V CAT III EN 61010-1 to 600 V CAT IV  Agency approvals  UL, CSA, TÜV listed and VDE Pending  Mechanical and general specifications  Size  43 x 90 x 185 mm  Weight  420 g  Warranty  Lifetime	Storage temperature	-30° C to +60° C	
Overvoltage category  EN 61010-1 to 1000 V CAT III EN 61010-1 to 600 V CAT IV  Agency approvals  UL, CSA, TÜV listed and VDE Pending  Mechanical and general specifications  Size  43 x 90 x 185 mm  Weight  420 g  Warranty  Lifetime	Humidity (without condensation)		
EN 61010-1 to 600 V CAT IV  Agency approvals  UL, CSA, TÜV listed and VDE Pending  Mechanical and general specifications  Size  43 x 90 x 185 mm  Weight  420 g  Warranty  Lifetime	Safety specifications		
Mechanical and general specificationsSize43 x 90 x 185 mmWeight420 gWarrantyLifetime	Overvoltage category	EN 61010-1 to 1000 V CAT III EN 61010-1 to 600 V CAT IV	
Size 43 x 90 x 185 mm  Weight 420 g  Warranty Lifetime	Agency approvals	UL, CSA, TÜV listed and VDE Pending	
Weight 420 g Warranty Lifetime	Mechanical and general speci	fications	
Warranty Lifetime	Size	43 x 90 x 185 mm	
	Weight	420 g	
Battery life Alkaline ~200 hours typical, without backlight	Warranty	Lifetime	
	Battery life	Alkaline ~200 hours typical, without backlight	

<sup>1.</sup> Accuracies are best accuracies for each function



Fluke 323 True-RMS Clamp Meter

Detailed specifications		
AC current	Range	400.0 A
	Accuracy	2 % ± 5 digits (45 Hz to 65 Hz) 2.5 % ± 5 digits (65 Hz to 400 Hz)
DC current	Range	-
	Accuracy	-
AC voltage	Range	600.0 V
	Accuracy	1.5 % ± 5 digits
DC voltage	Range	600.0 V
	Accuracy	1.0 % ± 5 digits
Resistance	Range	400.0 Ω/ 4000 Ω
	Accuracy	1.0 % ± 5 digits
Continuity	≤ 70 Ω	
Capacitance	-	
Frequency	-	
AC response	True-rms	
Backlight	-	
Data hold	Yes	
Contact temperature	-	
Min/Max	-	
Size	HxWxD(mm)	207 x 75 x 34
	Max wire diameter	30 mm (600 MCM)
	Weight	265 g
Category rating	CAT III 600 V CAT IV 300 V	
Warranty	Two-year	

### **Ordering information**

Fluke 179 IMSK Industrial Multimeter Service Kit

#### Included

Fluke 179 True-RMS Digital Multimeter Fluke 323 True-RMS Clamp Meter 80BK-A DMM Temperature Probe TL75 Hard Point Test Lead Set AC175 Threaded Alligator Clip Set Fluke. Keeping your world up and running.®

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