

**TECHNICAL DATA** 

# 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.

- Rugged, reliable basic true-rms clamp meter for measuring current up to 400 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
- $\bullet$  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

Max. resolution   0.1 mV   Maximum   1000 V	Detailed specifications			
Maximum   1000 V	Voltage DC	Accuracy <sup>1</sup>	± (0.09 % + 2)	
Voltage AC   Accuracy¹   ± (1.0 % + 3)		Max. resolution	0.1 mV	
Max. resolution   0.1 mV   Maximum   1000 V   Current DC   Accuracy¹   ± (1.0 % + 3)   Max. resolution   0.01 mA   Maximum   10 A   Current AC   Accuracy¹   ± (1.5 % + 3)   Max. resolution   0.01 mA   Maximum   10 A   Maximum   10 A   Maximum   10 A   Maximum   10 A   Resistance   Accuracy¹   ± (0.9 % + 1)   Max. resolution   0.1 0   Maximum   50 M   Capacitance   Accuracy¹   ± (1.2 % + 2)   Max. resolution   1 n P   Maximum   10,000 μP   Frequency   Accuracy¹   ± (0.1 % + 1)   Max. resolution   0.01 Hz   Maximum   10,000 μP   Frequency   Accuracy¹   ± (0.1 % + 1)   Max. resolution   0.01 Hz   Maximum   1000 kHz   Temperature   Accuracy¹   ± (1.0 % + 10)   Max. resolution   0.1 °C   Max		Maximum	1000 V	
Maximum   1000 V	Voltage AC	Accuracy <sup>1</sup>	± (1.0 % + 3)	
Current DC		Max. resolution	0.1 mV	
Max. resolution   0.01 mA     Maximum   10 A     Current AC		Maximum	1000 V	
Maximum	Current DC	Accuracy <sup>1</sup>	± (1.0 % + 3)	
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         0.01 Hz           Maximum         100 kHz           Temperature         Accuracy¹         ± (1.0 % + 10)           Max. resolution         0.1 °C           Maximum         -10° C h+ 10)           Max. resolution         0.1 °C           Maximum         -40 °C / 400 °C           Environmental specifications         -10° C to +50° C           Storage temperature         -10° C to +50° C           Storage temperature         -30° C to +60° C           Humidity (without condensation)         0 % - 20 % (0° C - 38° C)           Ow - 70 % (35° C - 50° C)         Safety specifications           Overvoltage category         EN 61010-1 to 1000 V CAT III           EN 61010-1 to 600 V C		Max. resolution	0.01 mA	
Max. resolution		Maximum	10 A	
Maximum	Current AC	Accuracy <sup>1</sup>	± (1.5 % + 3)	
Accuracy		Max. resolution	0.01 mA	
Max. resolution   0.1 Ω   Maximum   50 MΩ		Maximum	10 A	
Maximum   SO MΩ	Resistance	Accuracy <sup>1</sup>	± (0.9 % + 1)	
Capacitance         Accuracy¹         ± (1.2 % + 2)           Max. resolution         1 nF           Maximum         10,000 μF           Frequency         4ccuracy¹         ± (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         -10° C to +50° C           Storage temperature         −10° C to +50° C           Storage temperature         −30° C to +60° C           Humidity (without condensation)         0 % − 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, 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 Ω	
Max. resolution   1 nF   10,000 μF   10,000 μΕ   10		Maximum	50 ΜΩ	
Maximum   10,000 μF	Capacitance	Accuracy <sup>1</sup>	± (1.2 % + 2)	
Accuracy		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 % (35° C - 50° C)           Safety specifications         EN 61010-1 to 1000 V CAT III           EN 61010-1 to 600 V CAT IV         Will be dead of the color		Maximum	10,000 μF	
Maximum	Frequency	Accuracy <sup>1</sup>	± (0.1 % + 1)	
Accuracy		Max. resolution	0.01 Hz	
Max. resolution Maximum  Out of C  Out of Storage temperature  Out of C  Out		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  Weight 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)  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, 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  Warranty  Lifetime	Environmental specifications			
Humidity (without condensation)  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, 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		
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, 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  Wechanical and general specifications  Size  43 x 90 x 185 mm  Weight  420 g  Warranty  Lifetime	Safety specifications			
Mechanical and general specifications Size 43 x 90 x 185 mm Weight 420 g Warranty Lifetime	Overvoltage category			
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		
Warranty Lifetime	Weight	420 g		
	Warranty			
	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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