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## MARTINDALE ELECTRIC TB118KIT1 Complete Electrical Safety Kit for Gas Engineers User Manual

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*MARTINDALE ELECTRIC TB118KIT1 Complete  
Electrical Safety Kit for Gas Engineers  
User Manual*



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## Key features

- Complete electrical safety kits for gas installation and service engineers
- All in one solution for earth verification, locking off and proving dead
- Includes voltage indicator, proving unit, locking off devices and earth checker
- Slimline and miniature push pin MCB lock outs and fused spur locking off device
- Essential for compliance with Electricity at Work Regulations for safe working and TB118

On 20th July 2020, the Electricity at Work Regulations (EAWR) were amended. The changes require new test procedures to keep service engineers safe from electrical hazards. Starting from July 2020 Gas Safe registration will require knowledge and competency in how to safely isolate the electrical supply to appliances.

Martindale TB118KIT1 includes all the essential test tools for gas safety engineers to achieve compliance. The new kit combines easy to use tools for live voltage indication and earth loop verification together with fused spur and MCB locking off devices in a high quality soft carry case. The full kit comprises of:

### LOKKITGAS1

- Four essential locking off devices, LOK10, LOK11, LOK7 for MCBs and LOKFS1 for fused spurs
- Padlock, pen tag and carry case

### VIPD138-S

- Voltage indicator and matching proving unit for safe and simple voltage indication
- Combination carry case

### EZ650

- Earth loop resistance and polarity checker for socket and spur testing

### TC88

- Soft carry case with shoulder strap

## Specifications

### Electrical

Nominal voltage range: 50 – 600V DC/AC rms

Nominal voltage threshold indications:

50, 100, 200, 400 V DC/AC rms

Voltage threshold tolerance:

Conforms to BS EN 61243-3

Internal impedance at ELV a.c.: 214k $\Omega$

Polarity & voltage indication:  $\geq 12V$  DC/AC rms

AC/DC voltage detection: automatic

Range detection: automatic

Response time:  $<0.1s$

Frequency range: DC, 1 – 400Hz

Test current:  $< 3.5mA$  at 600V DC/AC rms

Duty ratio: 30s ON (operated) / 240s OFF (recovery)

### Environmental

Temperature & Humidity (Operating & Storage):  $-10^{\circ}C$  to  $55^{\circ}C \leq$

85% R.H.

Altitude: up to 2000m

### General

Power: From circuit under test

Dimensions: 205(L) x 67(W) x 27(D) mm

Weight: 130g approx.

### Safety

Conforms to BS EN 61243-3 CAT IV 600 V

Class II, Double Insulation

Pollution Degree 2

IP rating: IP54

### EMC

Conforms to BS EN 61326-1

PD440S Proving Unit

Output voltage: 440V nominal

Output frequency: 50Hz nominal

### Environmental

Operating temperature:  $-10^{\circ}C$  to  $40^{\circ}C$  at max. 70% R.H.

Altitude: up to 2000m

Pollution degree: 2

### General

Power: internal batteries

Internal batteries: 6 x 1.5V, AA alkaline batteries (IEC LR6, NEDA 15A)

Dimensions: 143 x 84 x 50mm.

Weight packed: 400g approx. with batteries

Includes: 6 x 1.5V AA alkaline batteries, instructions

EZ650 Advanced Socket and Spur Tester

EZ650 E-Ze Check Xtra Pro is supplied with an IEC socket with an interchangeable 3 pin adaptor and a 3 way flying lead with croc clips allowing testing at sockets, fused spurs, light fittings, junction boxes and terminals.

Nominal operating voltage: 230V

Frequency: 50Hz

Non-trip Earth loop impedance ranges: 0-1.7-5-10-100-200-500 $\Omega$

Earth loop threshold accuracy:  $\pm(10\% + 0.3\Omega)^*$

Voltage low indication:  $<195V \pm 5\%$

Voltage high indication:  $>270V \pm 5\%$

Earth neutral voltage high indication:  $>30V \pm 5\%$

Open earth indication:  $>500\Omega$

Temperature Range:  $-10$  to  $40^{\circ}C$ , non-condensing

Dimensions: 315mm x 260mm x 85mm

Weight: Approx. 250g

Power supply: From mains

Power consumption:  $<2.5W$

Overvoltage category: Cat II / 300V

Pollution degree: 2

Safety: Complies with BS EN 61010-1

\* Note: Measurement accuracy can be affected by highly inductive or capacitive loads distributed on the supply

### LOKKITGAS1 Gas Engineer Lockout Kit

The 8 piece lock out kit contains the following items:

- 1 x Padlock with unique key (PAD11RD)

- 1 x Steel safety hasp (LOKHASP25)
- 1 x Slimline grey isolation lock (LOK7)
- 1 x Red miniature push pin MCB lock (LOK11)
- 1 x Yellow push pin MCB lock (LOK10)
- 1 x "Equipment Locked Out" tag which can be overwritten
- 1 x Black marker pen (LOKMP)
- 1 x Soft carry case (TC55)

#### Included

EZ650 Earth loop impedance & socket tester, LOKKITGAS1 Gas engineer lockout kit, VIPD138-S Voltage indicator & proving unit kit, TC88 Soft carry case

#### Optional Accessories

TAG4 Pack of 10 lock out kit tags

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#### Documents / Resources



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 TB118KIT1 Complete Electrical Safety Kit for Gas Engineers, TB118KIT1, Complete Electrical Safety Kit for Gas Engineers

#### Related Manuals / Resources



#### [SDC ED4200 Corbin Russwin Electric Latch Retraction Kit Instruction Manual](#)

SDC ED4200 Corbin Russwin Electric Latch Retraction Kit INSTALLATION Retrofit  
 Installation Note: 42" or 48" exit devices that...

#### [SDC ED910 Arrow Electric Latch Retraction Kit Instruction Manual](#)

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#### [SDC LR100FCK First Choice Electric Latch Retraction Kit Instruction Manual](#)

INSTALLATION INSTRUCTIONS LR100FCK FIRST CHOICE ELECTRIC LATCH  
 RETRACTION KIT MODELS: 3600 & 3700 First Choice Electric Latch Retraction...



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MANTERN Non-Electric Gas Timer User Manual This gas timer valve will help to keep your grill and grilling...

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