



### 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

In 2018 Gas Safe Register Technical Bulletin 118 was amended. The changes require new test procedures to keep service engineers safe from electrical hazards.

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

- 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

### VI13800 Voltage Indicator

#### 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°C to 55°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

### PD440 Proving Unit

Output voltage: 440V nominal  
Output frequency: 50Hz nominal

#### Environmental

Operating temperature: -10°C to 40°C at max. 70% R.H.  
Altitude: up to 2000m

Pollution degree: 2

#### General

Power: internal batteries or external power source  
Internal batteries: 6 x 1.5V, AA alkaline batteries (IEC LR6, NEDA 15A)  
External power source: 12V DC max. at 2A min.  
External power socket: 2.5mm jack socket, centre positive  
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, 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°C, non-condensing

Dimensions: 315mm x 260mm x 85mm

Weight: Approx 1kg

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 (PAD10R)
- 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 Voltage indicator & proving unit kit, TC88 Soft carry case

#### Optional Accessories

TAG4 Pack of 10 lock out kit tags

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