



MTL10  
MTL20  
MTL20B MTL15

CAT IV  
600V

CAT IV  
1000V

### Key features

- Four illuminated bands for 360° AC/DC voltage indication
- Simple and safe with no batteries or range selection
- High intensity long life LEDs
- Interchangeable GS38 probes
- Heavy duty double insulated cable with contrasting inner core to identify damage

### Additional features MTL15:

- Extended voltage indication to 690V
- CAT IV 1000V safety rating

### Additional features MTL20 / MTL20B:

- Twin test buttons eliminate phantom voltages
- Blue LED lamp indication at 400V

	MTL10	MTL20 / MTL20B	MTL15
Self powered	✓	✓	✓
AC/DC voltage indication	✓	✓	✓
360° viewing	✓	✓	✓
LED voltage thresholds	50/100/200/400V	50/100/200/400V	50/230/400/690V
Low impedance function		✓	
Interchangeable probes	3	3	3

John Drummond test lamps have been designed to safely prove dead in all areas including CAT IV supply side applications. High intensity LEDs illuminate 4 distinct bands at different voltage thresholds to provide a 360° viewing angle even in bright sunlight. This allows accurate identification of potentially lethal voltages and distinguishes between 110V, 230V and phase to phase voltages.

The MTL15 has a CAT IV 1000V safety rating making it suitable for use in all installation categories and a higher 690V threshold. The MTL20 has a low impedance mode to safely dissipate phantom voltages.

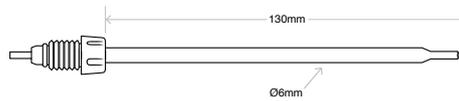
The test lamps are supplied with interchangeable test probes for safe and easy measurement in all types of application particularly where access is restricted. The right angled probe can be rotated through 90, 180 and 270 degrees and locked in position.

All models comply with the standard for voltage indicators, EN61243-3 which prohibits the use of fuses. Additional safety features include finger guards and a two layer double insulated cable with contrasting inner sheath, making it easy to identify cable damage.

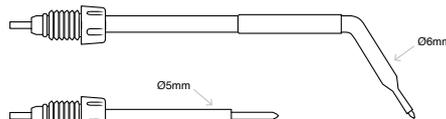
FUNCTION	MTL10	MTL20 / MTL20B	MTL15
<b>ELECTRICAL</b>			
Maximum working voltage	500V AC rms, 750V DC		1000V AC / DC rms
Nominal voltage threshold indications	50, 120, 230, 400V AC / DC rms		50, 230, 400, 690V AC / DC rms
Nominal voltage threshold tolerance	Conforms to BS EN 61243-3		
Range detection	Automatic		
Response time	<0.1s		
Frequency range	DC, 40-65Hz		
Test current (in)	<3.5mA at 500V AC rms, 750V DC		<3.5mA at 1000V AC / DC rms
Test current (switches operated)	-	approx. 28mA at 230V AC rms, DC approx. 58mA at 500V AC rms, DC	-
Duty ratio	30s ON (operated) / 240s OFF (recovery)		
Internal impedance at ELV ac	16kΩ	16kΩ - buttons not pressed 6kΩ - buttons pressed	16kΩ
<b>ENVIRONMENTAL</b>			
Temperature & humidity (operating & storage)	-10°C to 55°C, ≤ 85% R.H.		
Altitude	up to 2000m		
Pollution degree	2		
IP rating	IP64		
<b>GENERAL</b>			
Power	from circuit under test		
Dimensions	213(L) x 112(W) x 72(D) mm		
Weight	320g approx.	350g approx.	320g approx.
<b>SAFETY</b>			
	BS EN 61243-3		
Conforms to	BS EN 61010-1 CAT IV 600V Class II, double insulation		BS EN 61010-1 CAT IV 1000V, Class II, double insulation
	Standard probe tips comply with GS38		
<b>EMC</b>			
Conforms to	BS EN 61326-1		
Recommended proving unit	440V – PD440S or PD440SRD		690V – PD690S or PD690SRD

### Prod specification

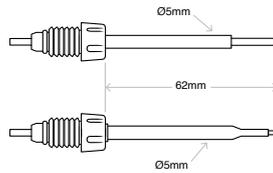
**MTL2106** - Straight prod long 130mm



**MTL2107** - Angled prod long 130mm



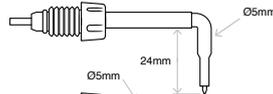
**MTL2108** - Straight prod Australian 62mm



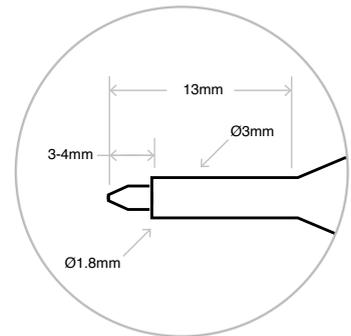
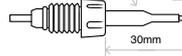
**MTL2104** - Straight prod standard 62mm. 2 x included



**MTL2105** - L shaped prod standard 62mm. 1 x included



**MTL2103** - Straight prod short 30mm



Probe tip detail - GS38 compliant (excludes MTL2108)

### Included

Test lamp, 2 x MTL2104 straight prods, 1 x MTL2105 L-shaped prod and instruction manual

### Related products

**MTL10PD-S** 400V test lamp, proving unit & combination carry case

**MTL20PD-S** 400V test lamp, proving unit & combination carry case

**MTL15PD-S** 690V test lamp, proving unit & combination carry case

**MTL2106** Straight prod long 130mm

**MTL2107** Angled prod long 130mm

**MTL2108** Straight prod Australian 62mm

**MTL2103** Straight prod short 30mm

Drummond products by

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### Ver. D3.0

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