

TX5053/5054 DEADLINE VOLTAGE CHECKER



ATEX
M1
GROUP I & II
INTRINSICALLY
SAFE

FOR USE ON

CABLES

BUSBARS

TERMINALS

FUSEGEAR

DISTRIBUTION
BOARDS

SWITCHES

CONTROL
PANELS
SWITCHGEAR

MOTORS

ISOLATORS

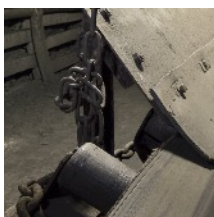
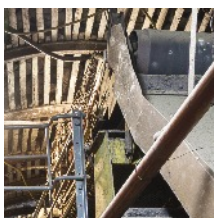
COUPLERS

JUNCTION BOXES
IN HAZARDOUS
AREAS

trolex.com



OPERATING DATA



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OPERATING DATA

1 APPLICATION



The Cheker is a tool which will allow an experienced electrician to carry out a final check to prove that conductors are dead after all the usual safety procedures and precautions have been taken.

2 OPERATING INSTRUCTIONS

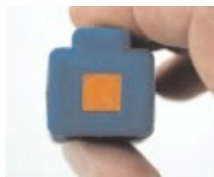


Remove the Cheker from its packaging and press the membrane switch. If the LED fails to illuminate, charge the Cheker for 14 hours before use.

Hold the Cheker between thumb and finger, positioning the sloping LED window for the optimum viewing angle.

Press the membrane switch.

The LED will flash to indicate that the Cheker battery is charged.



LED does not indicate calibration status of the Cheker. To prove sensor is picking up voltage in the expected threshold, it should be tested prior to use by subjecting it to a known electrical field.



The LED will change from 'flashing' to 'steady' as the instrument senses the electric field surrounding a live conductor, (it is not necessary to actually touch the conductor, the operating Distance is approximately proportional to the voltage level present and the size of the conductor).

If the LED continues to flash, this indicates that the Cheker is not sensing a live electric field.



WARNING
DO NOT USE THE CHEKER IF THE LED DOES NOT FLASH.

The enclosure is coated with a static-dissipative coating; care should be taken to not damage this coating and therefore reduce its effectiveness. The Cheker will switch off automatically if the battery voltage falls below the critical safe working level.

If the LED does NOT flash when the Cheker is switched on, recharge the Cheker.

Conductors with metal screens or armouring will not have a surrounding electric field. In such cases carry out the test at the exposed ends of the conductors.

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3 CHARGING



The Cheker can be charged at any time by inserting it into Cheker charger. Make sure it is fully home in the charger otherwise the charging system will not function correctly. The Cheker will fully charge in approximately 14 hours.

DO NOT LEAVE CHEKER ON PERMANENT CHARGE AS THIS WILL REDUCE THE LIFE OF THE BATTERIES - ONLY CHARGE WHEN NECESSARY.

DO NOT STORE CHEKER IN CHARGER.

DO NOT LEAVE CHEKER IN A DISCHARGED STATE FOR LONG PERIODS.

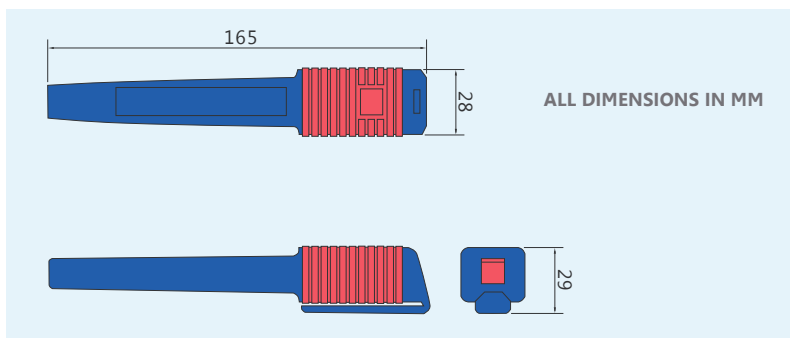
Always switch off Cheker Charger when not in use.

4 SERVICING AND REPAIR

No user serviceable parts are within the Cheker, for repair contact the Product Support Department at Trolex.

5 TECHNICAL DETAILS

Sensing Voltage:	TX5053 : 35 V ac upwards. TX5054 : 150 V ac upwards.
LED Indicator:	- LED flashes twice per second to indicate Cheker is charged and not detecting live voltages. - LED lights continuously upon detection of a live voltage
Case Insulation Breakdown Voltage:	>20 kV
Protection Classification:	Dust and Waterproof to IP66
Nett Weight:	75 g (packed)
Battery Capacity:	72 hours continuous use per charge or 6 months intermittent use.
Charging:	14 hours (use only Cheker Charger).
Charging System:	Contactless (inductive) charging.



The LED indicator does not indicate the calibration status of the Cheker. A confidence test should be performed upon the Cheker prior to usage. The Cheker should be returned to Trolex for an annual service and calibration check.

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6 ACCESSORIES



TX5097 CHEKER CHARGER
230 V ac, FLYING LEAD

7 DISPOSAL



Exhausted batteries contain mildly corrosive substances and must be disposed of in the correct manner. Make sure that the battery is completely discharged before disposal.

Do not incinerate as this may result in an explosion.

CONSULT OUR PRODUCT SUPPORT DEPARTMENT
IF YOU REQUIRE ASSISTANCE.

8 APPROVALS AND CERTIFICATION



8.1 Intrinsically Safe

The instrument is certified Intrinsically Safe Group I and Group II, for use in potentially explosive atmosphere to EURONORM standards.

The instrument is designed to comply with the ATEX directive (94/9/EEC).

TX5053 II 1 G EEx ia IIC T6 Baseefa03ATEX0206X (Fitted with Red Rubber Grip)

TX5054 I M1 EEx ia I Baseefa03ATEX0206X (Fitted with Black Rubber Grip)

8.2 Special Conditions for Safe Use

The instrument is coated with a static-dissipative coating; care must be taken to not damage this coating and therefore reduce its effectiveness.



8.3 Electro Magnetic Compatibility

The instrument is designed and tested to comply with the EC directive on EMC (89/336/EEC).

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