# User Manual Contactless Voltage Tester TIS 958

uction / Product Package

Danger of electric shock and other dangers

Preparation for tests

Conducting Voltage Tests

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10. Cleaning and storage

References marked on tester or in instruction manual:

Warning of a potential danger, comply with instruction manual.

Reference. Please pay utmost attention.

Caution! Dangerous voltage. Danger of electrical shock.

Continuous double or reinforced insulation complies with category II DIN

C Conformity symbol, the instrument complies with the valid directives It complies with the EMV Directive (2014/30/EU), Standard EN 61326-1

Tester complies with the standard (2012/19/EU) WEEE

Position of magnetic field sensor

The instruction manual contains information and references, necessary er (commissioning/assembly) the user is kindly requested to thoroughly for safe operation and maintenance of the tester. Prior to using the testread the instruction manual and comply with it in all sections.

Failure to read the tester manual or to comply with the warnings and references contained herein can result in serious bodily injury or tester

ressional associations are to be strictly enforced at all times The respective accident prevention regulations established by the pro-

# Introduction / Product Package

sulated wires, cables and testing rotary field. No direct contact to the device The confactless voltage tester TIS 958 is developed for voltage testing at in-

# following features: The contactless tester TIS 958 is characterized by the

Designed to meet international safety standards EN 61010-1

 Contactless voltage testing between 20 V and 1000 V (2 sensitities) Measurement Category (CAT) IV/1000 V

Check for cable breaks

Phase detection on sockets

Voltage test through red LED, vibration motor and buzzer

 Empty battery indication Self test during product start

· Auto power off

· Torch light

· IP65 (IEC 60529)

Rotary field test

After unpacking, check that the instrument is undamaged.
The product package comprises:

2 pcs batteries 1.5 V, IEC LR03 1 pc Tester TIS 958 1 pc operating instructions

The testers have been constructed and tested in accordance with the safety regulations for voltage testers and have left the factory in a safe

The operating instructions contain information and References required operating instructions carefully and follow them in all respects. for selfe operation and use of the tester. Before using the tester, read the

3. Danger of electric shock and other dangers

A Verification of live-circuit shouldn't be dependent on testing with a contactless tester but only on the voltage test with a 2 pole voltage tester

The signal during voltage test has no information on type and strength of according to EN 61243-3.

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To avoid an electric shock, observe the precautions when working with voltages exceeding 120 V (60 V) DC or 50 V (25 V) eff AC. In accordance ues in brackets refer to limited ranges, e.g. in agricultural areas). with DIN VDE these values represent the threshold contact voltages (val-

DD Before using the tester, ensure that the device is in perfect working or-The tester must not be used with the battery compartment open

A Hold the tester and accessories by the designated grip areas only.

The tester may be used only within the specified measurement ranges der. Look out e.g. for broken housing or leaking batteries.

1 The tester may be used only in the measuring circuit category it has and in low-voltage installations up to 1000 V. been designed for.

1 order (e.g. on a known voltage source). Before and after use, always check that the tester is in perfect working

The tester must no longer be used if one or more functions fail or if no functionality is indicated.

A perfect display is guaranteed only within a temperature range of 0° to It is not permitted to use the tester during rain or precipitation.

+40° C at relative air humidity less than 80%.

If the safety of the user cannot be guaranteed, the tester must be switched off and secured against unintentional use.

1 Safety is no longer guaranteed e.g. in the following cases

- broken housing, cracks in housing

- if the tester can no longer perform the required measurements/

- stored for too long in unfavorable conditions

- damaged during transport

of the tester or the tester is disturbed by electrical devices. pen in rare cases that electric devices are disturbed by the electrical field The tester complies with all EMC regulations. Nevertheless it can hap-

Never use the tester in explosive environment Tester must be operated by trained users only

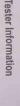
Operational safety is no longer guaranteed if the tester is modified or

The tester may be opened by an authorized service technician only.

4. Intended Use

# 5. Tester Information

The tester may be used only under the conditions and for the purposes for which it was designed. Therefore, observe in particular the safety instructions, the technical data including environmental conditions



 Test tip for voltage test Torch light

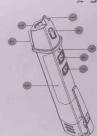
Display area for voltage test

 Display area for rotary field test

Grip area 6. ON/OFF button

Torch light button

Rotary field indication Battery door



# Preparation of testing

 Switch on the tester by pressing long the ON/OFF button Buzzer, red LED and vibration motor switch on shortly as self test

 By default, the 50...1000 V testing range is activated. Press the ON/OFF button short time for switching to the 20...50 V range. The tester shows in the 20...50 V range also voltages between 50 V and 1000 V. If a voltage source above 50 V is present close to a 20 V voltage source, the tester will detect

· A blinking red LED is on to show readiness

The tester is switched off by pressing ON/OFF long time

The tester has auto power off after approx. 3 minutes

## 7. Conducting Tests

### 7.1 Voltage testing

· Move the device slowly along the DUT, e.g. a cable.

 In the 50...1000 V mode, if the tester detects an alternating voltage the LED is \* In the 20...50 V mode, if the tester detects an alternating voltage the LED flashes and the buzzer sounds.

 The position of the earth conductor in DUT can influence the testing. solid on and the buzzer sounds

7.2 Magnetic field testing

. Bring the area of the tester that is marked with the magnetic symbol near a magnet. The yellow LED is on if a magnetic field is detected.

### 7.3 Torch Light

\* By pressing the torch light button, the torch light switches on.

Entering the rotary field test mode: Press and hold the onloff and torch buttons together for approximately 3 seconds. 7.4 Rotary field test (RF)

Disable the rotary field test mode: a short press of both the on/off and torch Auto power-off: After 3 minutes of inactivity.

buttons together:

Rotary field test: 4. Nove the device away from the first conductor under test, until the vibration 2. more first conductor under test until the vibration is on 3. Touch a first conductor under test until the vibration is on 2. Make sure that the yellow light is on without vibration 1. Enter the rotary field mode

Touch a second conductor under test until vibration with RF direction

6. Viait until yellow light is on without vibration before starting a next test (point 2)

Rotary Field Indications:

green light: right rolary field (L1-L2, L2-L3 or L3-L1) red light: left rolary field (L1-L3, L2-L1 or L3-L2)

blue light: the same phase (L1-L1, L2-L2 or L3-L3)

between touching the two conductors under test. Start the test from beginning beep tone with red light under the test cap; error due to a too long time yellow light: ready

AF test is optimized for CEE plugs

Mining can influence rotary field indication

## 8. Exchange of batteries

The red LED without buzzer indicates low battery

· Pull out the Battery door and replace the batteries. Insert new batteries Open the battery door by pressing on the square recess according to the symbol.

Re-assemble battery door.

A confirm that the battery door case is properly locked prior measurements.

Attention! Do not throw used batteries into the household refuse but provisions regarding return, recycling and disposal of used batteries and accumulators must be observed. dispose of them at special refuse collecting points. The applicable

### 9. Technical data

Vibration: Safety as per: Duty cycle: Frequency range: Voltage ranges: requency range (RF): Temperature range: Dimensions: Current consumption: 50/60 Hz 40...400 Hz 20...1000 V AC (2 ranges) EN 61010-1 approx. 80 mA approx. 155 x 25 x 23 mm 0°...40° C, <80 % relative humidity 2 x 1.5 V LR03 (AAA) approx. 55 g

# 10. Cleaning and storage

· Tester does not need any special maintenance if used according to user

Remove tester away from all test points before cleaning

· Use a lightly damp cloth with neutral detergent for cleaning the tester. Do not use abrasives or solvents.

· Do not expose the tester to direct sun light, high temperature and humbit or dewfall.

· Remove batteries when the instrument will not be in use for a long period

### OT-1-5

WF17 8LN, United Kingdom Carlinghow Mills · 501, Bradford Road Battey West Yorkshire Test Instruments Solutions - 1st Floor, Middle Mill