



## Connecting the T-P22 & T-P23

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\*\* BEFORE plugging the 4 core fused test lead into the T-P22/23 \*\*  
\*\*\*\*\* attach it to the cable under test as follows: \*\*\*\*\*

1. Secure the BLACK test lead to the NEUTRAL of the cable under test
2. Connect the RED, (YELLOW & BLUE) test lead(s) to the PHASE(S) of the cable under test
3. Position the antenna in a convenient place and plug in the antenna cable
4. Optionally, when using a T-P22 at the source end of the cable under test:
  - i Connect the 2 core cable to the T-P22
  - ii Insert the 4mm plugs into the CT clamp
  - iii Place the CT clamp around the conductor to be monitored
5. Plug the 4 core fused test lead into the T-P22/23

## Disconnecting the T-P22 & T-P23

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\*\*\* BEFORE disconnecting from the cable under test \*\*\*  
\*\*\*\*\* check the status of the Modem & Armed LEDs \*\*\*\*\*  
\*\* to ensure the T-P22/23 is not communicating with *iHost* \*\*

1. Unplug the 4 core fused test lead from the T-P22/23
2. Remove the RED, (YELLOW & BLUE) test lead(s) from the PHASE(S) of the cable under test
3. Detach the BLACK test lead from the NEUTRAL of the cable under test
4. Disconnect the antenna cable from the T-P22/23
5. Optionally, when using a T-P22:
  - i Remove the CT clamp from the conductor being monitored
  - ii Disconnect the 2 core cable from the T-P22
  - iii Remove the 4mm plugs from the CT clamp

# Communicating with the T-P22 & T-P23

## Connection for local control of the T-P22/23 via *Bluetooth*

- **BEFORE** starting T-P2X Master run the *Bluetooth Manager* of the PC to select and 'pair' with the T-P22/23 noting the assigned COM port number. If requested for a password use '1234'.
- Start T-P2X Master and select the COM port allocated by the *Bluetooth Manager* and the appropriate JOB, LOCATION and UNIT
- Click on "Connect to T-P22" to open the connection to the T-P22/23 so that the current settings of the T-P22/23 are retrieved together with the index of the latest triggered events
- Adjust settings, retrieve records of triggered events etc...
- Click ARM to update the T-P22/23 to the latest settings, including the current date & time according to the PC clock. The T-P22/23 will re-arm automatically after 2 minutes if no commands are sent to it.

## Connection for remote control of the T-P22/23 via *iHost*

- The antenna must be connected to the T-P22/23 for remote control
- Remote control is only possible once the modem has registered onto a network as shown by the MODEM indicator as follows:  
  
FLASHING once per second = Attempting to register on a network  
FLASHING every four seconds = Successfully registered on a network  
FLICKERING = Remote communication with *iHost* in progress  
OFF continuously = Modem re-initialising (or faulty)
- The T-P22/23 will dis-arm when called by *iHost* for full remote control
- The T-P22/23 will dis-arm and report to *iHost* when called from any telephone (using the phone number of the SIM card in the T-P22/23)
- The T-P22/23 will reset when *iHost* disconnects or if the internet connection is broken. Re-setting can take upto 3 minutes.

## **Indicators on the T-P22 & T-P23**

### **T-P22 Only:**

The Va, Vb, Vc, Vab, Vbc & Vca indicators show which phase(s) of the cable are energised (or receiving a backfeed)

### **T-P22 & T-P23:**

Provided at least one phase is energised the POWER indicator should be ON

The HEALTHY indicator should begin to FLASH after a few seconds

The ARMED indicator will come ON after approximately 2 minutes

The TRIGGER indicator will be ON if one or more triggered events have been captured since the last time the T-P22/23 was re-armed. The TRIGGER indicator is set OFF each time local or remote connection is attempted

TDR mode: the PULSE indicator = ON & the RECORD indicator = OFF

TRS Master mode: the PULSE indicator = ON & the RECORD indicator = ON

TRS Slave mode: the PULSE indicator = OFF & the RECORD indicator = ON

## **Selecting where to connect the T-P22 & T-P23**

- 1<sup>st</sup> choice      An Open End e.g. at an open point in a link box or to the feeder stalks on a back-fed cable
- 2<sup>nd</sup> choice      With a Blocking Coil in series with a re-energising device in the faulty phase
- 3<sup>rd</sup> choice      With a re-energising device in the faulty phase
- 4<sup>th</sup> choice      With a fuse inserted in the faulty phase