Tempo®
A Textron Company

PTS 100

PAIR TRACING PROBE

Operating instructions
Mode d'emploi
Bedienungsanleitung

GREENLEE®
A Textron Company

PAIR TRACING

Pair tracing with an oscillator and probe is the quickest way to identify cable pairs. Just connect a signal to the line and search for it at the distant location with a PTS100 probe.

FEATURES

- Easy to use and very strong
- High gain and high output level
- Variable sensitivity
- Integral loudspeaker
- Original tone output
- Press-button operation
- Easy change battery - sliding cover

OPERATION

Apply a tracing oscillator to the origin of the pair to be traced. Although most oscillators will work with PTS100, either PTS200 (warble tone) or PTS209 (beep tone) are suitable for use with PTS100.

Check that a tone is being emitted before going to the far end. (A shorted pair will not emit a signal). Search initially with the gain set high - rotate the sensitivity control towards "Far". This setting is used when trying to find a signal from a distance or when the signal is weak. Move the probe towards the strongest signal. Reduce the gain setting (towards NEAR) if the signal fails to vary as the probe is moved around. The strongest signal will be received when the insulation is contacted or it will be stronger still if direct copper contact is made.

VERIFYING CABLE PAIRS

The are two ways to ensure that the right pair has been traced.

- Open the pair into a V and place the probe tip near the centre. A null or zero will be found at or near the centre on the correct pair. If the signal will not zero the pair is split. If the signal nulls way over to one side the pair is unbalanced and faulty - this could be one wire high resistance, open circuit or grounded.
- It is also possible to verify the pair by shorting the target cable pair. If correctly traced the signal will be eliminated by this action. If not then the pair may again be split or faulty.

OPERATING RANGE

It will be possible to trace the signal at about 10km (7 miles) from the oscillator depending on the local ambient noise at the receiving end. (Further is often possible).

BATTERIES

When the battery is nearly discharged the output from the loudspeaker will become quiet and distorted. To change the battery just slide open the hatch cover and insert a new standard 9 volt battery. Use either Alkaline or Lithium Batteries.

REPAIR

For maximum strength and long life PTS100 case is permanently sealed.

WARRANTY

Tempo Europe Ltd warrants this product and each part thereof for a period of one year. Tempo Europe agrees to remedy warranty defects free of charge provided that: the product is returned pre-paid to the supplier, it is adequately packed and labelled, all parts are returned and warranty seals (if fitted) are not broken.

Warranty does not cover: normal wear and tear, accidental damage, misuse, abuse or neglect and is voided by any unapproved modification.

FURTHER INFORMATION

Refer any queries either to your local supplier or any of the offices shown on the rear cover.

Distributor Address:

Tempo Europe Limited
Brecon House,
William Brown Close,
Cwmbran
NP44 3AB
U.K.

Tel: +44 (0) 1633 627710
Fax: +44 (0) 1633 627711
www.tempo.textron.com
tempo@klauke.textron.com

Part No: 1201-03-2302, Issue 1, 02/08

PTS 200

PAIR TRACING OSCILLATOR

Operating instructions
Mode d'emploi
Bedienungsanleitung

PAIR TRACING

Pair tracing with an oscillator and probe is the quickest way to identify cable pairs -it's easy and reliable. Just connect a signal to the line and search for it at the distant location with a non-contact probe.

PTS200 will work with most probes on the market but best results are assured if used with its PTS100 partner.

FEATURES

- Distinctive warble tone oscillator
- Easy operation
- Continuity test
- Polarity test
- > 800 hours battery life
- Strong, welded construction
- Separate battery compartment
- Quick change battery - no tools

OPERATION

Select a pair of wires to be traced. Connect the oscillator cords to the stripped wires or use the modular plug if tracing from a line-jack socket. Check that the pair is not shorted by switching the oscillator to "Continuity". If the LED lights the pair cannot be traced due to the short circuit (no signal will be emitted from a short-circuit cable pair). If the pair is good switch to "Oscillator". Hold the probe near to the connecting wire to ensure a tone is being emitted before travelling to the far end to trace it.

PTS200 emits a warble tone signal in the audio band at a level equivalent to a customer speaking very loudly on the telephone line. It is not an abnormally loud signal. Detection of the signal relies on a sensitive probe not on high transmit levels. This signal will travel along the cable pair at the same attenuation rate as a normal speech signal.

OPERATING RANGE

It will be possible to trace the signal at about 10km (7 miles) from the oscillator depending on the gain of the probe and the local ambient noise at the receiving end (further is often possible).

POLARITY TESTING

With the switch set to the OFF/POL position it is possible to test for the presence and polarity of voltage on the line. Connect to the line in one polarity and then the other. If the LED lights the Red wire is connected to positive and the Black wire is connected to negative. The LED will be bright if connected to an inactive (on-hook) line. If the LED is dim it is connected either to an off-hook line (active line - Don't switch to oscillator or a loud signal will be sent to the customer), or alternatively the line voltage will be low due to a high resistance short on the line. (In this case the signal emitted from the wire will be weak and hard to trace).

BATTERIES

Use either Alkaline or Lithium Batteries. A standard 9 Volt battery is required and will be available in all local stores.

REPAIR

For maximum strength and long life the PTS200 case is permanently sealed.

WARRANTY

Tempo Europe Limited warrants this product and each part thereof for a period of one year. Tempo Europe Limited agrees to remedy warranty defects free of charge provided that: the product is returned pre-paid to the supplier, it is adequately packed and labelled, all parts are returned and warranty seals (if fitted) are not broken.

Warranty does not cover: normal wear and tear, accidental damage, misuse, abuse or neglect and is voided by any unapproved modification.

FURTHER INFORMATION

Refer any queries either to your local supplier or any of the offices shown below.

Distributor Address:

Tempo Europe Limited
Brecon Houose,
William Brown Close,
Cwmbran
NP44 3AB,
United Kingdom.

Tel: +44 (0) 1633 627710
Fax: +44 (0) 1633 627711
Web: www.tempo.textron.com
E-mail: tempo@klauke.textron.com

Part No: 1201-03-2312 Iss 1 05/10