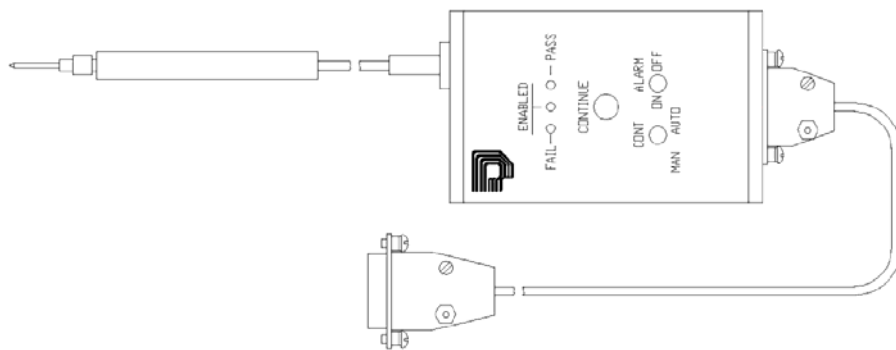


# Continuity Test Probe

## CTP-5

The hand-held CTP-5 Continuity Probe is a new probe for use with the 2115 & 2500 series wiring analyzers and allows the operator to probe specific points on the UUT. The directive ENB, PRB in the test file enables the probe for Continuity Tests with a high limit only. It allows controlled sequencing of tests while manually probing along selected circuit paths to isolate a fault. It is used with low voltage or current stimulus only. The new continuity probe provides the following enhanced features. These features include visual indicators for Probe ENABLE, PASS and FAIL as well as an audible alarm to indicate a pass condition. The alarm can be activated or deactivated by a two position toggle switch. The probe also has a "Continue" pushbutton switch that causes the test to stop, report the results and continue to the next operation. This function can be done manually or automatically by placing the toggle switch in the desired position.

Probes are generally used on cables with loose wires (sometimes referred to as "hanging ends") that are not terminated until final installation. To verify proper termination, the probe is used to verify the loose wire by using the adapted point. You can also use the probe with the Probe On Fail (ENB, POF) directive which automatically enters probe on a continuity failure. The operator may then use the probe to contact several adjacent circuits to verify continuity.



CONTINUITY PROBE (CTP-5)



## Probe Functions

The CTP-5 provides the following switches, displays and alarm:

- CONTINUE – momentary pushbutton switch that will terminate the current continuity test and advance to the next test.
- CONT MAN/AUTO – two position toggle switch to select automatic advance on “PASS” or manual control through the “CONTINUE” button.
- ALARM OFF/ON – two position toggle switch to activate or deactivate the alarm.
- ENABLED – this indicator (yellow) is illuminated when the probe is enabled.
- PASS – this indicator (green) is illuminated when the test decision is pass.
- FAIL – this indicator (red) is illuminated when the test decision is fail.
- ALARM – an audible tone that is activated once the test decision is pass.

The CONT MAN/AUTO switch is provided for selecting the optimal test setup. The switch position should be confirmed before continuity test begins to eliminate any operator confusion. The switch position can be adjusted at any time during test. The ALARM OFF/ON switch may also be adjusted at any time during test.

## Physical Characteristics

The banana jack connector, located at the top of the continuity probe, is used to plug the test lead into the probe. The banana jack connector also allows the user to fabricate a custom test lead, with the only requirement being a banana plug at the end of the test lead. The bottom of the probe contains a DB-9 connector. This allows for the cable interface between probe and the DIT-MCO system. The DB-9 connector must be secured to probe for proper signal interface between the two devices.



## Test Procedure

The test verifies the correct function of the CTP-5 Probe. Connect the probe and cable assembly to the system. Enter manual mode and type the following instructions.

- C.1A<5R 1S
- ENB PRB
- X 0
- C (with no address)
- Touch the probe to Address 0 and verify green LED is on and if ALARM ON switch is activated, an audible tone should be coming from the probe.
- Press the continue button on the probe to end the test. If the probe is set for AUTO, the test will be concluded once the green LED is illuminated.

