PTE-30-CH - how to use it as an external timer with PTE-300-V or PTE-100-V

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Language	English	**Visible in Public Knowledge Base**	✓

Detail Information

Solution Title PTE-30-CH - how to use it as an external timer with PTE-300-V or PTE-100-V

Solution Details

The easiest way to use the PTE-30-CH chronometer with the PTE-300-V or PTE-100-V relay test sets is by means of the START CHRONO connection found in these products. Please use the supplied COAX cable to connect the PTE-30-CH chronometer to the test set in this way:

The coax cable has a coaxial connector at one end and two 4-mm bananas at the other end.

Connect the coaxial end to the "START CHRONO" rounded output in the PTE-300-V (at the top left corner, above the SMC logo) and the 4-mm bananas to the DRY CONTACT input in the M1 section of the PTE-30-CH (BLACK and GREEN connectors). After this has been done, the chronometer should start automatically when you activate the output (ON button) in any of the PTE-300-V channels. Please check it now. If it does not work, you might have a blown fuse in the PTE-30-CH.

To STOP the chronometer when your tested device (relay or whatever) operates, use two test leads to connect the device's operation contact to the STOP input connectors in the chronometer's M2 section, in the following way:

a) If the device's operation contact (for example, the relay's trip contact) is DRY (i.e. isolated from any power source), connect those leads to the BLACK and GREEN connectors in the PTE-30-CH chronometer's M2 section.

b) If the device's operation contact is not isolated from a voltage source, you should connect it across the BLACK and RED connectors in the PTE-30-CH chronometer's M2 section.

In any of the above a) and b) situations, you may also need to modify the STOP MODE selection in the chronometer, according to the following situations in the relay's operation contact:

If the relay's operation contact is NORMALLY OPEN, you need to set the STOP MODE to:

a) positive (default, UP arrow LED) if the operation contact is DRY (no voltage), or

b) negative (press the STOP MODE button once to select DOWN arrow LED) if it is a voltage-charged contact

If the relay's operation contact is NORMALLY CLOSED, you need to set the STOP MODE to:

a) positive (default, UP arrow LED) if the operation contact is voltage-charged , or
b) negative (press the STOP MODE button once to select DOWN arrow LED) if it is a dry contact.

Now you are ready to start your testing. The timer should start when you press the ON button or the STEP button at any of the PTE-300-V output channels. Do not forget to press the RESET button in the chronometer before each test to set the reading to ZERO.