

## CP 1-N Digital Chronometer

by **COTEL**



- Times Durations, Cycles & Pulses
- Accurate
- User Friendly
- Two Timing Inputs
- Programmable Output Contact
- Resolution 0.1 msecs.
- Integrated Printer
- Datestamped Measurements

### APPLICATION

The **CP 1-N** is an easy to use digital chronometer for measuring contact opening and closing times and the time to presence or absence of AC or DC voltages.

The instrument is especially adapted to timing events from and to Protection Relays, Breakers and Auxiliary Relays.

There are two independent inputs for time measurement which can be configured as Volt-Free or Volts Detection. and an output contact with a programmable delay of up to 60 seconds which has continuous or pulsed modes.

The system is powered from the mains, (230 Vac +/- 10% + earth) and is protected by a varistor and fuse.

### SPECIFICATION

Rugged housing with carrying handle  
Dimensions 27 x 14.6 x 17.4 cm. Weight 3.9 kg.  
Two banana-socket inputs for time measurement,  
Voltage-Free or Voltage-Detection  
(11 - 250 Vdc or 35 - 250 Vac).  
Range 1 millisecond to 774.999 seconds  
Accuracy 0.02% of time value +/- 0.1 ms.  
Resolution 0.1 ms.

### Output Information

One contact with programmable delay of 0 to 60 seconds from timer start, configurable NO or NC  
Pulse mode - 1 to 60 seconds in steps of 1 ms.  
Max opening power 20 A / 250 Vac/dc  
Protection by varistor and fuse on front face.

### Chronometric functions

1 timer channel with choice of internal or external start  
START on detection of NO, NC or change NO/NC  
1 timer channel with choice of internal or external stop  
STOP on detection of NO, NC or change NO/NC  
Duration & pulse measurement  
Output contact NO/NC synchronised with or delayed from the timer start.

### Options

In-built **Thermal Printer** for immediate test reports.  
**Cable Kit** Cables for connection to relays, etc..

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