

DC TO 500 HERTZ FREQUENCY RANGE

DESCRIPTION

The model CT7 produces an output which is directly proportional to the input from dc. to over 500 hertz. It functions as a dc. isolator and low-frequency ac. transducer with dc. response. Full-scale current ranges of

0.1 - 20 amperes, 1 millisecond response, and 1500 volt ac. isolation from input to output fit many instrumentation requirements. The output is proportional to the input amplitude and frequency (ac. in/out, dc. in/out).

FEATURES

- Provides output which is directly proportional to dc. input signal.
- Output is electrically isolated from input.

APPLICATIONS

- Accurate measurement of dc. current.
- Low current measurement.

INPUT CURRENT (AMPS)	OPTIONAL OUTPUTS MODEL NUMBER CT7-			
	± 1mA	4 - 20mA	± 10V	± 5V
0 - 0.1	002B	002E	002D	002X5
0 - 0.5	004B	004E	004D	004X5
0 - 1	006B	006E	006D	006X5
0 - 1.5	007B	007E	007D	007X5
0 - 2	008B	008E	008D	008X5
0 - 5	014B	014E	014D	014X5
0 - 10	015B	015E	015D	015X5
0 - 15	016B	016E	016D	016X5
0 - 20	017B	017E	017D	017X5



OTHER CURRENT RANGES AVAILABLE - CONSULT FACTORY

All units require 85 - 135Vac instrument power, (50 - 400 Hz.).

Optional 220Vac instrument power - Add suffix "- 22".

ORDERING INFORMATION

Example: 0 - 500mA dc input
with 4 - 20mA output.
CT7 - 004E

MODEL CT7 SPECIFICATIONS

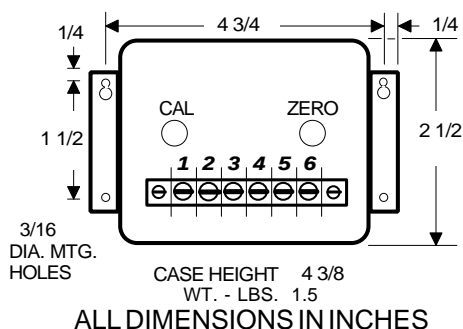
INPUT

CURRENT: See tables
 FREQUENCY RANGE: dc - 500 Hz.
 BURDEN (OHMS):
 0.1 Amp Models: 1
 0.5 - 5 Amp Models: 0.1
 10 - 20 Amp Models: Less than 0.005
 OVERLOAD: 1.2 times full-scale rating
 DIELECTRIC TEST (Input/Output/Case): 1500Vac

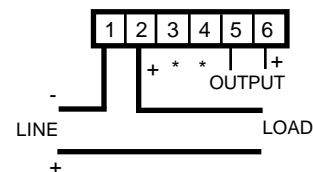
OUTPUT

ACCURACY: ± 0.25% F.S. @ d.c.
 (Includes effects of linearity and repeatability.)
 RESPONSE (90%): 1 millisecond
 OUTPUT LOADING (OHMS):
 0 - 1mA: 0 - 10K
 0 - 10Vdc, 0 - 5Vdc: 2K min.
 4 - 20mA: 0 - 500
 FIELD ADJUSTABLE CAL.: ± 10%
 TEMPERATURE EFFECT (-10°C - 60°C): ± 1.0% RDG.
 INSTRUMENT POWER (STD.): 85 - 135Vac, 50 - 400 Hz, 5VA.

CASE DIMENSIONS



CONNECTION DIAGRAMS



* AC instrument power-terminals 3, 4.