

Description:

A 10 to 1 step-down snap-around transformer designed to be used in conjunction with the AMPROBE snap-around A.C. Ammeter.

Conductor Size:

Round 2 1/4" Dia.
Bus Bar 3/4" x 2 1/2"

Current Range:

60 amps to 1200 amps
Continuous Duty—Below 600 amps
Intermittent Duty—Above 600 amps

NOTE: Do **not** leave on the line for more than 2 minutes above 600 amps. Prolonged heating will temporarily affect the accuracy of the transformer. For greater accuracy place Deca-Tran on a section of the conductor which is a minimum of 6" from adjacent conductors.

Ratio Accuracy:

±3 1/2%

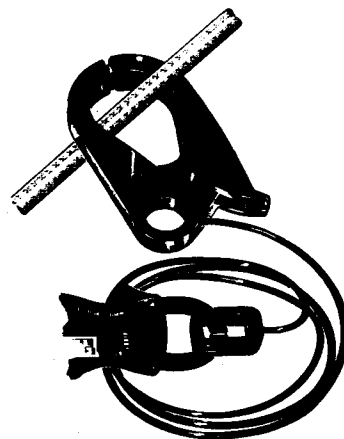
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OPERATING INSTRUCTIONS
AMPROBE® DECA-TRAN®
Model A50-1



SAFETY PRECAUTIONS

IMPORTANT:

1. Before using any electrical instrument or accessory for actual testing, the unit should be checked on a known live line to make certain it is operating properly.
2. In many instances, you will be working with dangerous levels of voltage and/or current; therefore, it is important that you avoid direct contact with any uninsulated, current-carrying surfaces. Appropriate insulating gloves and clothing should be worn.
3. Should the A50-1 accidentally be used to try to measure a current beyond the range of the instrument, immediately remove the A50-1 from the circuit.
4. When not in use, keep A50-1 in its carrying case.



The AMPROBE DECA-TRAN is designed primarily for use with any AMPROBE clamp-on instrument* or multimeter and recorder current transducer* where an extension of amperage ranges is needed. No matter which AMPROBE model you presently own, you can use the AMPROBE DECA-TRAN to extend your amperage readings by 10 times! For example, by using the AMPROBE DECA-TRAN in conjunction with your Model RS-1, you can obtain an actual current reading of 1000 amps AC on the RS-1 range of 0-100. This makes your AMPROBE instrument, one of the world's most versatile electrical test instrument 10 times more flexible. *Except LAW78(T) or LAW79C(T); "ACD" Digital Clamp-ons; AW80/81 Transducers; and A664, A703, and A753.

HOW TO OPERATE THE AMPROBE DECA-TRAN FOR CURRENT READINGS

1. Open Deca-tran transformer jaws and snap around ONE CONDUCTOR. (Figure 1).



Fig. #1

- 2.

MODEL A50-1

CAUTION
Do not
Take Reading
in this loop

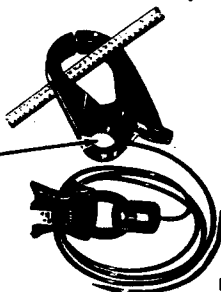


Fig. #2

MODEL A50-1
Clamp AMPROBE instrument jaws over square adaptor at end of line cord. Multiply Ampere reading by 10.

NOTE: 1200* Amperes is the limit on readings that can be obtained with the Deca-tran. 1200 Amperes will, therefore, be read as 120 Amperes on the 300 Ampere scale of an instrument with that range.

*See page 4- CURRENT RANGE

WHEN USED WITH DECA-TRAN

Let us assume that the pointer of your AMPROBE instrument is at the position indicated in the illustrations. The reading will be as follows.



POINTER
READS 78
AMPS
Actual
current-780
amps
Heavy mark
between 60
& 80 is 70
amps. Each
sub-division
between
70 & 80
is 2 amps.

Fig. #3



POINTER
READS 32.5
AMPS
Actual
current-325
amps
Each
sub-division
between
30 & 40
is 1 amp.

Fig. #4



POINTER
READS 12.7
AMPS
Actual
current-127
amps
Heavy
mark above
12 is 13
amps. Each
sub-division
between
12 & 13
is .5 amp.

Fig. #5

EXTENSION OF RANGES WITH DECA-TRAN

A.C. CURRENT RANGE OF AMPROBE MODEL	ADDITIONAL A.C. CURRENT RANGE WITH DECA-TRAN
6 Amps	60 Amps
10 Amps	100 Amps
15 Amps	150 Amps
25 Amps	250 Amps
40 Amps	400 Amps
50 Amps	500 Amps
100 Amps	1000 Amps
CAUTION: DO NOT EXCEED 120 Amps on the 300 Amp Range	1200 Amps