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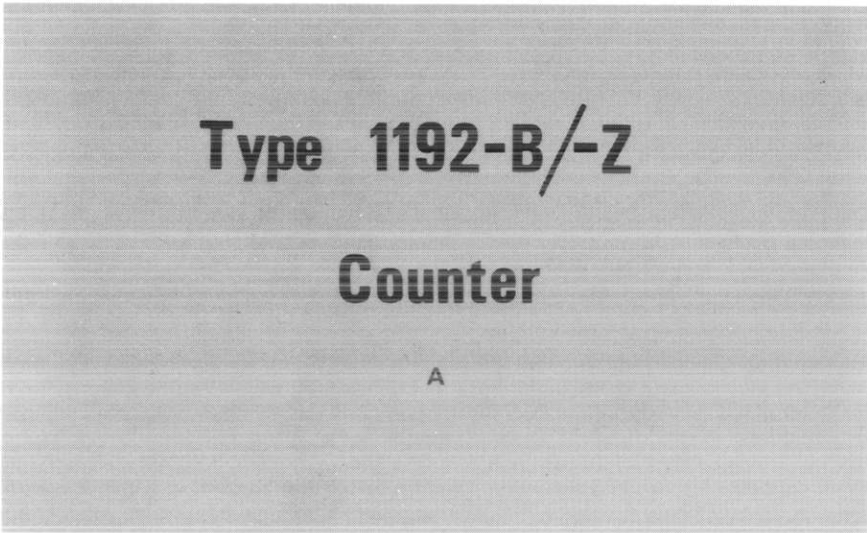
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WARRANTY

We warrant that each new instrument manufactured and sold by us is free from defects in material and workmanship and that, properly used, it will perform in full accordance with applicable specifications for a period of two years after original shipment. Any instrument or component that is found within the two-year period not to meet these standards after examination by our factory, District Office, or authorized repair agency personnel will be repaired or, at our option, replaced without charge, except for tubes or batteries that have given normal service.



Type 1192-B/-Z Counter

A

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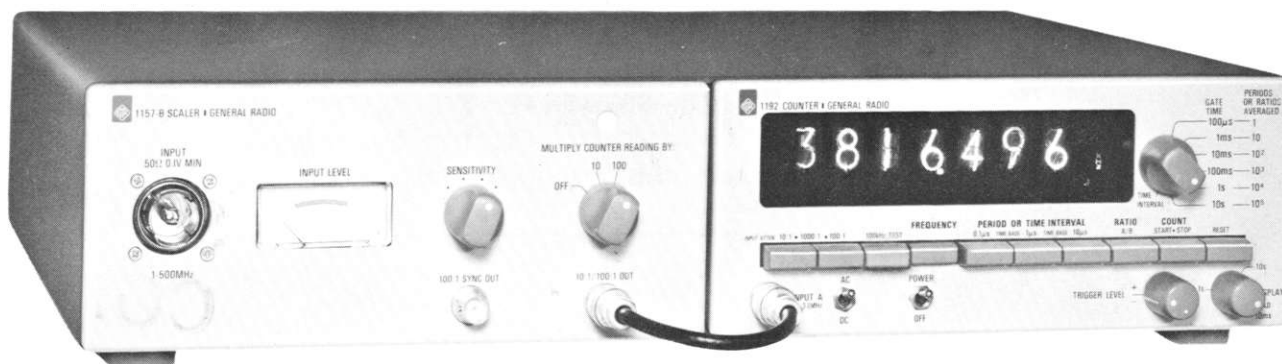
Concord, Massachusetts, U.S.A. 01742

Form No. 1192-0110-A

October, 1970

ID-B997

1192-Z Operating Instructions



To operate the 1192-Z Counter, proceed as follows:

a. Connect the 6-in. coaxial cable supplied (P/N 0776-2000) with the 1192-Z between the 10:1/100:1 OUT connector on the 1157-B Scaler and the INPUT A connector on the 1192 Counter.

b. Check that the line-voltage switches on both the scaler and counter are each in the proper position for the voltage available.

c. Connect the power cords supplied between the power source and the instruments.

d. Turn the 1157 SENSITIVITY control left to its stop, initially.

e. Connect the signal to be measured to the INPUT connector (maximum level, 7 V rms).

f. Set the MULTIPLY COUNTER READING BY switch to the desired ratio. The pilot light should glow.

g. Turn the SENSITIVITY control cw, as required, to obtain an indication in the green sector of the INPUT LEVEL meter. More detailed instructions are given in the 1157 Instruction Manual, Operation Section.

h. Set the AC-DC switch to the AC position on the 1192 Counter.

i. Set the INPUT ATTEN buttons to 10:1 or 100:1.

j. Center the TRIGGER LEVEL control.

k. Set the POWER-OFF switch to the POWER position.

l. Set the range switch to the desired counting time or number of periods or ratios averaged.

m. Set the DISPLAY control to the desired display time.

n. Depress the desired measurement pushbutton. If a TIME INTERVAL measurement is to be made, set the

range switch to TIME INTERVAL and depress one of the TIME INTERVAL pushbuttons. If a COUNT measurement is to be made, do not depress the COUNT pushbutton until it is desired to start the measurement. If a RATIO measurement is to be made, connect the second signal (lower frequency) to the INPUT B connector on the rear panel of the 1192. If an external standard frequency is to phase lock the counter, connect it to INPUT B and set the EXT TIME-BASE switch to the proper position. A RATIO measurement and a phase-locked counter can not exist at the same time.

o. Depress the STORAGE pushbutton on the rear panel if the storage mode is not desired, but leave it unlatched if storage is desired.

p. Connect any desired data-reading instruments to the optional DATA OUTPUT connector on the rear panel of the 1192.

q. Depress the RESET button, release it and read the answer to the measurement (remember to allow for the X10 or X100 scaling factor) on the front-panel visual registers, after the amount of time set on the range switch has elapsed. Measurements will continue to be made if the DISPLAY control is in any position except HOLD. If a measurement reading does not appear or is erratic, check that the scaler INPUT LEVEL reading is in the green range and adjust the TRIGGER LEVEL control or decrease the INPUT ATTEN setting on the counter.

More detailed counter instructions are given in the 1192 Operation section of this manual.