

HANDY CALIBRATOR CA-10

INSTRUCTION MANUAL FOR CALIBRATION OF ACCELEROMETERS

** Please read this manual before using the product, and keep it handy **

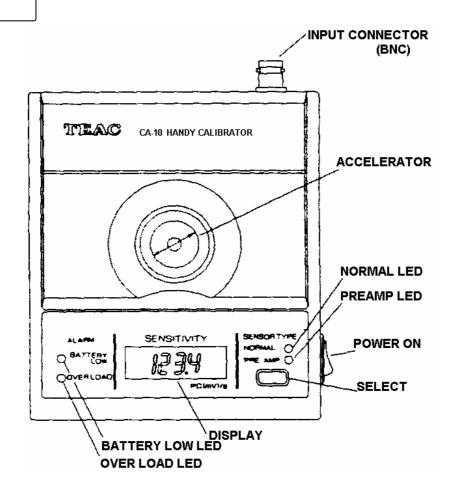
SAFETY INSTRUCTIONS CAUTION

- Read all of these instructions.
- Save these instructions for later use.
- Follow all Warnings and instructions marked on the products.
 - This product is not an approved medical device.
- This product is not CE Mark Alliance.

DISCLAIMER

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FUNCTIONS



ACCESORIES						
1	50cm low noise cable (BNC – miniature connector)	4	AA size batteries			
1	trunk case	1	1 instruction manual			
4	M6 adapter converter {M6 – M4, M6 – No.10-32UNF, M6 – Flat, M6 connecting screw (one each)}					

FEATURES

Handy Calibrator CA-10 is compact, handy size calibrator for accelerometers including piezoelectric type accelerometers. CA-10 is self-contained calibrator which includes amplifier and accelerator in, it makes possible to calibrate both voltage type (preamplifier built-in) accelerometers and charge (normal) types. The unit can be powered by 4 pcs of AA size batteries, it provides easy calibration on the field, and be able to carry anywhere. The test results appear in a moment on its display.

INSTRUCTION

- 1. Connect an accelerometer to CA-10.
 - ¶ When connecting the accelerometer, set it by hands. In case using spanner, do not set with the torque more than 20kgf.cm.
 - ¶ CA-10's adapter is Metric m6 type, when applying non M6 type, please utilize the converter such as "M6 to flat" in accessory bag.
- 2. Connect the output of the accelerometer to INPUT of CA-10.
- 3. Switch the power on.
- 4. Push the SELECT button to lighten NORMAL LED, when the accelerometer is charge type. If the accelerometer is voltage type, then lighten PREAMP LED.
 - ¶ If the voltage of voltage type accelerometer is different from the voltage which is supplied from CA-10, then there is a possibility that the calibration result would be not precise.
- 5. Read the value shown on display. The value on display will be stabilized after 6 seconds from calibration. The value unit is pC/g when calibrating charge type accelerometers, the value unit is mV/g when calibrating voltage type accelerometers.
 - ¶ Use CA-10 on stable desks. If using on places where are not static, then CA-10 would not show the precise value or the value would not be settled. In case unable to use CA-10 on the stable places, then please have CA-10 in hands and calibrate carefully.
- 6. If the voltage is getting lower, the BATTERY LOW LED blinks, then exchange all 4 pcs of batteries to new ones. (Always exchange the batteries 4 pcs at the same time.)
- 7. If the mass of an accelerometer is more than 130gr, the OVER LOAD LED will blink. When the LED blinks, the calibrated result would not be precise.
- 8. After the calibration, switch the power off, and take the accelerometer off from CA-10.

SPECIFICATION

Calibration range	0~199.9 (pC/g, mV/g)	Battery Life	8 hours
Sensor mass	less than 130gr		(continuation use)
Calibration accuracy	\pm (3% + 2 digit)		1500 times calibration
Acceleration of vibration	$0.5g \pm 3\%$		(under the condition with
Frequency of vibration	159.2Hz ± 2%		40gr sensor each 30 sec's
Sensor plug type	M6 screw (6.5 depth)		calibration.)
Operation temperature	0 ~ +50 degree	Excitation	DC15V 0.5mA
Storage temperature	-10 ~ +50 degree	Dimensions	120(W) x 140(D) x 50(H)
Battery Type	AA size Battery	Mass	Approx. 1Kg
Power consumption	120mA (Max.)		(including batteries)
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Specifications subject to change without notice.