

CM Compressometer

Civil engineering design



Easy to install
Repeated use
Easy drawing of stress- strain curve

The CM compressometer is designed to conduct a strength test. It measures the axial strain on a cylindrical concrete specimen placed in and secured by screws to the inner chamber of this compressometer. It uses a high-sensitivity displacement transducer to measure the amount of strain. By multiplying a measurement by a certain factor, the amount of strain can be calculated as a numerical value. Unlike the case of ordinary strain gauges, this compressometer is simple and easy to operate and can be used repeatedly. However, it cannot be used to conduct breaking tests.

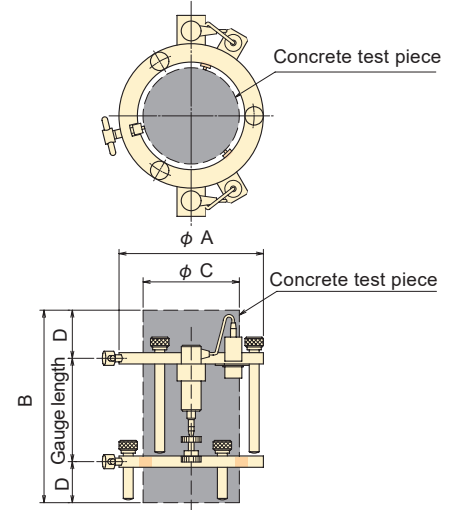
SPECIFICATIONS

TYPE	CM-10	CM-12	CM-15
Applicable specimen	φ 10x20 cm	φ 12.5x25 cm	φ 15x30 cm
Gauge length	100mm	125mm	150mm
Capacity	50000×10 ⁻⁶ strain	40000×10 ⁻⁶ strain	33000×10 ⁻⁶ strain
Input/Output resistance	350Ω		
Recommended exciting voltage	2V or less		
Allowable exciting voltage	10V		
Weight	2.5 kg	3.1 kg	3.7 kg

Supplied cable : CT6-4V10/NP-STB (φ 6mm 0.3mm² 4-core shielded vinyl cable 10m)

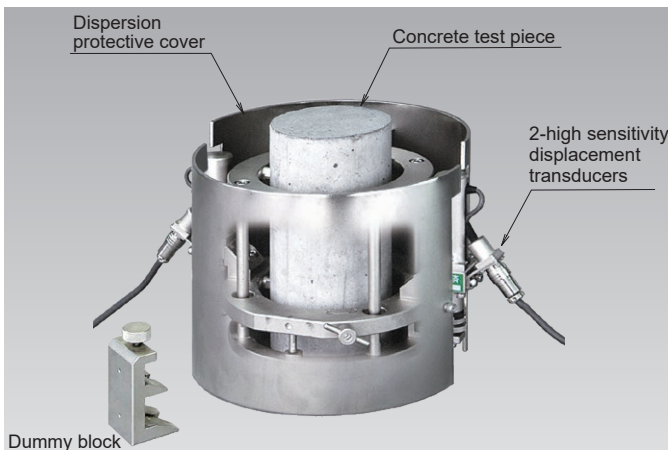
DIMENSIONS

TYPE	φ A	B	φ C	D
CM-10	150	200	100	50
CM-12	185	250	125	62.5
CM-15	210	300	150	75



CM-H Compressometer (Destructive)

Civil engineering design



The CM-10H compressometer is designed to measure compressive strain of cylindrical specimen made of ordinary concrete or high-strength concrete under loading test. It uses high sensitive displacement transducers for measurement of strain, and is constructed not to apply excessive displacement to the transducers even after the specimen is broken. In addition, it is equipped with protective covers intended to prevent dispersion of fragments of broken specimen. The displacement transducers are also protected with covers. It is very easy to set a specimen to the compressometer. A wet concrete specimen, which is just after taken out from underwater curing, can also be measured. When used together with load cell CLL-NA or CLH-NA, it is possible to measure the modulus of static elasticity.

Usable till destruction of a specimen

Easy to install

Possible strain measurement of wet specimen

Repeated use

SPECIFICATIONS

TYPE	CM-10H
Applicable specimen	φ 10x20 cm
Gauge length	100mm
Capacity	20000×10 ⁻⁶ strain
Input/Output resistance	350Ω
Weight	4.5 kg

Supplied cable : CT6-4V3/SNP-STB (φ 6mm 0.3mm² 4-core shielded vinyl cable 3m)

OPTION

Mounting jigs to position concrete test specimen are replaceable with option as damaged.

CMF-11H Fixed edge



CMF-12H Movable edge



CMF-13H Handle screw

