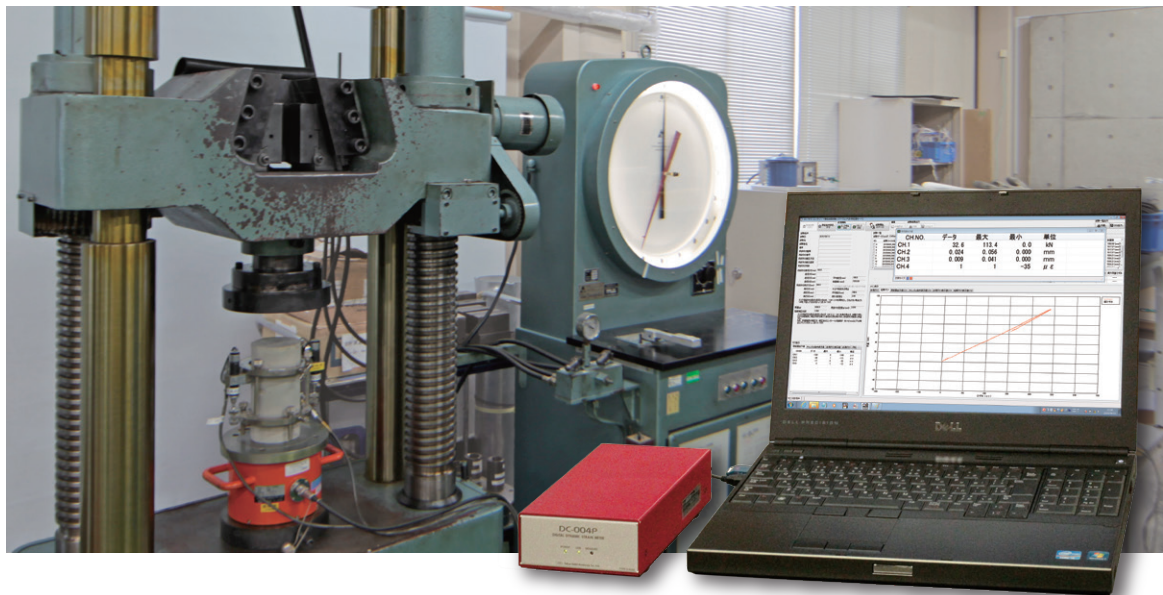




For PC-controlled dynamic strainmeter DC-004P

Concrete Static Modulus of Elasticity Test Software

DC-7972



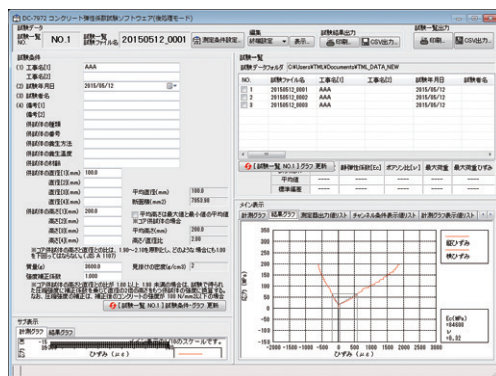
This software is used to determine the static modulus of elasticity of concrete by measuring load, strain, etc. using the PC-controlled dynamic strainmeter DC-004P.

Complies with "JIS A 1149 Test Method for Static Modulus of Elasticity of Concrete"

Feature

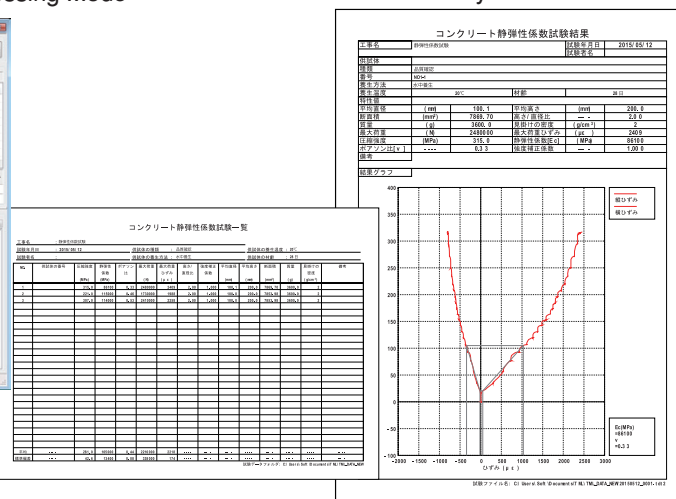
- Compressive strength, static modulus of elasticity, and Poisson's ratio can be calculated and printed from the measured values.
- Test results can be output to CSV file
- TEDS sensor support, input can be omitted by selecting a registered sensor
- Dynamic strain measurement ensures that peak values are not missed.

Measurement Processing Mode - Post-processing Mode



Concrete Static Modulus of Elasticity Test List

Concrete Static Modulus of Elasticity Test Results



Specification

Function		
Measurement condition setting	Test conditions, measurement conditions, display conditions, etc.	
Measure processing mode	Test measurement, calculation of mean and standard deviation of characteristic values, printing and CSV output of test results	
Post-processing mode	Change test conditions, recalculate characteristic values, and print or CSV output test data	
Data Edit		
Terminate	Hide unnecessary data at the end of data	
Data Deletion	Deletion of spike noise and other unwanted data	
Setting conditions		
Test conditions	Construction name, test date, name of tester, remarks, specimen type, number, curing method, curing temperature, lumber age, diameter and height, mass, strength correction factor	
Channel Conditions	Measurement element (stress/load, longitudinal strain, transverse strain), type, name, mark distance, capacity, rated output, correction factor, decimal point position	
Measuring conditions		
Sampling time	10, 20, 50, 100, 200, 500ms	
Number of words measured	100000, 200000, 500000(data)	
Trigger type	Manual measurement, data trigger measurement	
Data Trigger Measurement		
Pre-word count	1000, 2000, 5000, 10000(Data)	
Trigger element	Stress/load, longitudinal strain	
Display Conditions		
Measurement Graph Conditions X-Y Graph		
Stress/Load (Y) axis	Type	Stress, load
	Unit	Stress MPa, N/mm ² Load N, kN
	Scale	Maximum, minimum, set number of divisions or automatic
Strain (X) axis	Type	Average, Individual
	Unit	μ ϵ , μmm/mm, %
	Scale	Maximum, minimum, set number of divisions or automatic
Data trigger line	Data trigger line can be displayed during data trigger measurement	
Measurement Graph Condition Pie Monitor		
	Type	Stress, load
	Unit	Stress MPa, N/mm ² Load N, kN
	Scale	Maximum, minimum, set number of divisions or automatic
Result Graph Condition X-Y Graph		
Stress/Load (Y) axis	Type	Stress, load
	Unit	Stress MPa, N/mm ² Load N, kN
	Scale	Maximum, minimum, set number of divisions or automatic
Strain (X) axis	Type	Average, Individual
	Unit	μ ϵ , μmm/mm, %
	Scale	Maximum, minimum, set number of divisions or automatic
Modulus of elasticity calculation line	Modulus of elasticity calculation line can be displayed	

Connectable Sensors	
LOAD	Testing machine load (voltage output), load cell (strain transducer)
STRAIN	Strain gauge
DISPLACEMENT	Testing machine displacement (voltage output), displacement transducer (strain transducer)
Display	
Numeric monitor	Instrument output value : Measured value
	Channel condition display value : Value calculated by coefficients
	Measured graph display value : Value to be displayed on the measured graph
Graphs	X-Y (strain - load/stress), circular monitor (load/stress)
Data List	Measuring instrument output value : Measured value
	Connected channel display value : Value calculated by coefficients
	Measurement graph display value : Value displayed on the measurement graph
	Result graph display value : Value displayed on the result graph
Characteristic Values	Compressive strength, static modulus of elasticity, Poisson's ratio, maximum load, Maximum load strain
CSV Output	Output test data to CSV file
Other Functions	
Sensor Registration	LOAD (load), STRAIN (strain gauge), DISPLACEMENT (displacement transducer), Registration is possible with the sensor information reading (TEDS) function
Instrument version acquisition	Obtain the serial number and version of the measuring instrument
Instrument Check	Sensor connection status Error checking of firmware, memory, and LED displays
Instrument Update	Firmware upgrade
System	
Compatible Measuring Instruments	PC-controlled dynamic strainmeter DC-004P
Supported OS	Japanese Microsoft Windows 7(SP1)/8.1/10/11
Interface	USB 2.0 2 port DC-004P and protect key connection



The contents of this catalog are subject to change without prior notice.
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