ARMSTRONG

ZL-9001A

Computer-Controlled Carton Compression Tester

Test the compressive strength and load-bearing performance of corrugated cartons and packaging containers. TM2101 handles test setup, force and displacement curves, and reports.



Product illustration. Confirm the machine configuration and accessories in your quotation.

Load-cell rating	Compression space	Control software
1,000 kgf (approx. 9.81 kN)	800 x 800 x 800 mm	TM2101

Supplied and supported by Hung Ta Instrument.

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Applications and Specifications

Run compression or constant-force hold tests on corrugated cartons and other suitable packaging containers. The documentation references GB/T 4857.4-92; confirm the method and edition required for your tests.

Parameter	Specification
Load-cell rating	1,000 kgf (approx. 9.81 kN)
Compression space	800 x 800 x 800 mm
Drive	Servo motor with low-backlash twin ball screws and guide columns
Speed accuracy	Within +/-0.2%; confirm the verification conditions
Control software	TM2101 on a compatible computer
Power supply	Single-phase 220 V, 50 Hz. Check the nameplate for the current rating.

The load-cell rating is not a statement of the maximum permitted operating load. Confirm the limit for the supplied machine before testing.

For a quotation

Send the carton dimensions, required test standard, expected load, test or hold conditions, and report requirements. Confirm warranty and service terms in the Hung Ta quotation.

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Before and During a Test

Prepare the machine and specimen

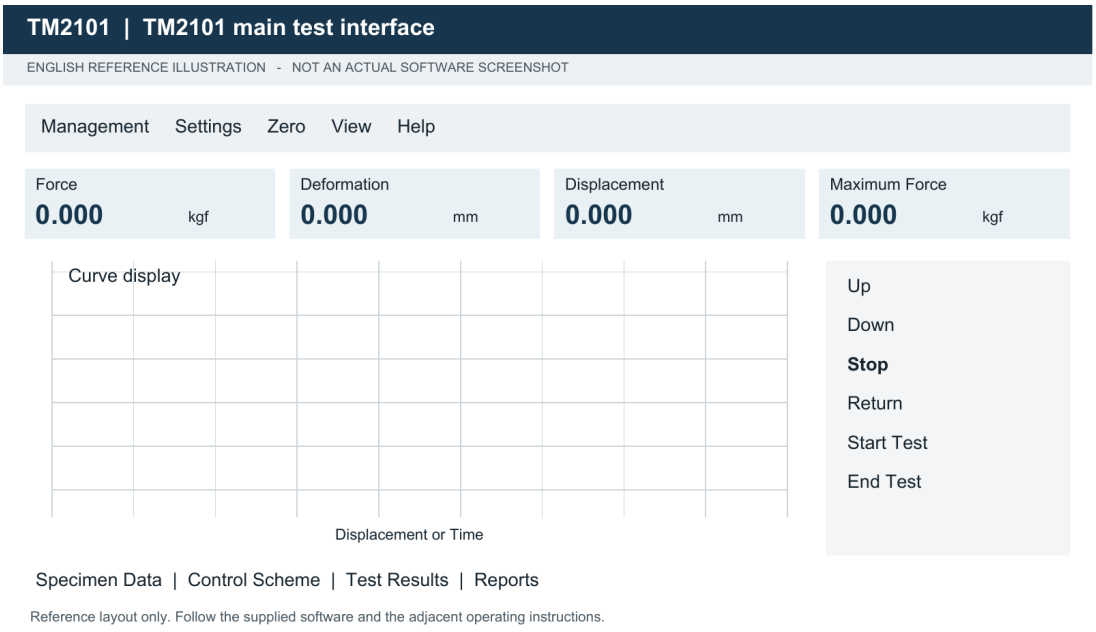
Place the machine on a stable surface, connect the protective earth and match the supply to the nameplate. Identify the stop and emergency stop controls before use.

Prepare and position the specimen according to the test method. Confirm the upper and lower travel limits, then enter the required test settings.

Run and monitor the test

Start the test from TM2101 and stay at the machine. Monitor force, time, deformation and displacement as applicable. If the machine behaves abnormally, stop it immediately and isolate the power if required by the operating manual.

When the test ends, record the result and remove the specimen safely before setting up the next test.



TM2101 main screen: live readings, curve and controls

Screens show example values. Use the instructions and limits for the delivered system.

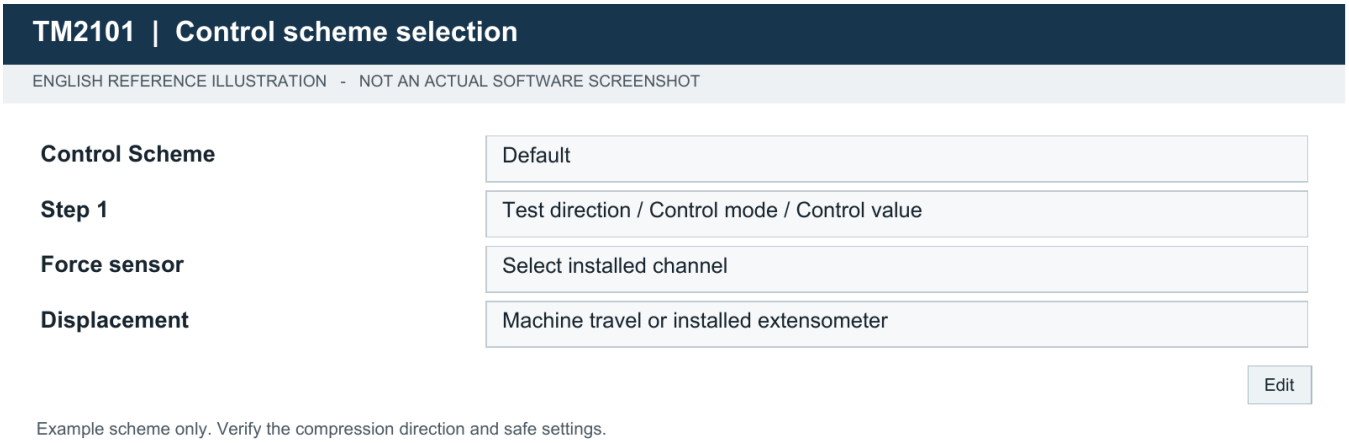
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Specimens and Test Methods

Choose the specimen and method

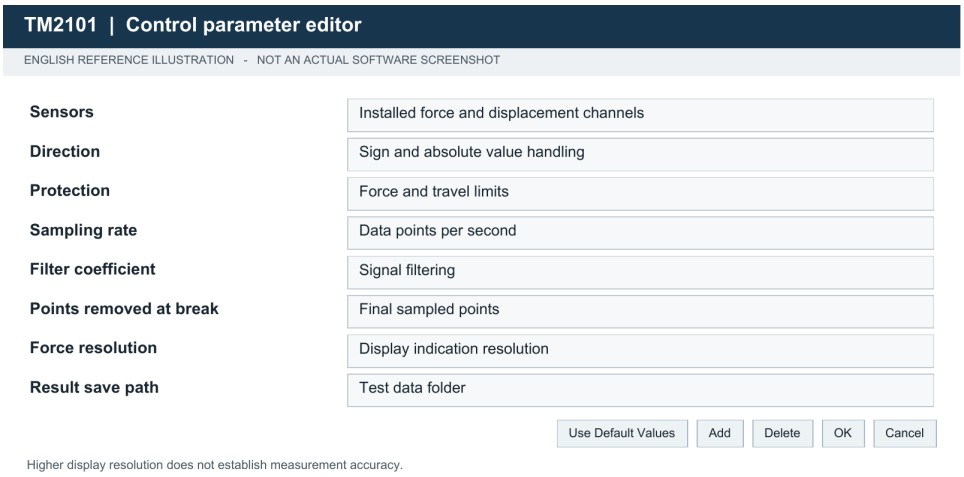
Select a stored specimen or create a new record. Choose compression or constant-force hold according to the test method.



Specimen record and test setup

Set the control parameters

Set the test direction, speed, travel and force limits, and sampling settings for the approved configuration. For a hold test, enter the target force and hold time.



Control settings

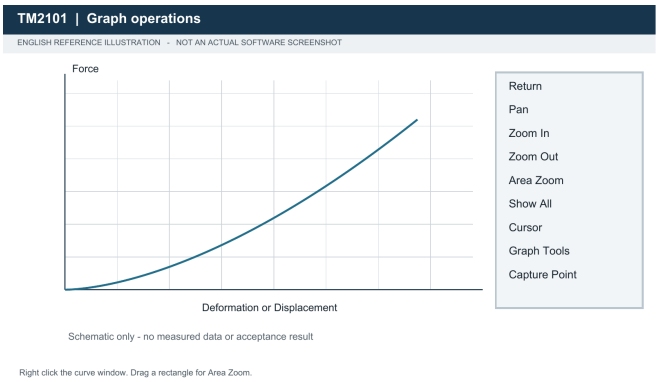
Curves, Reports and Support

Review the results

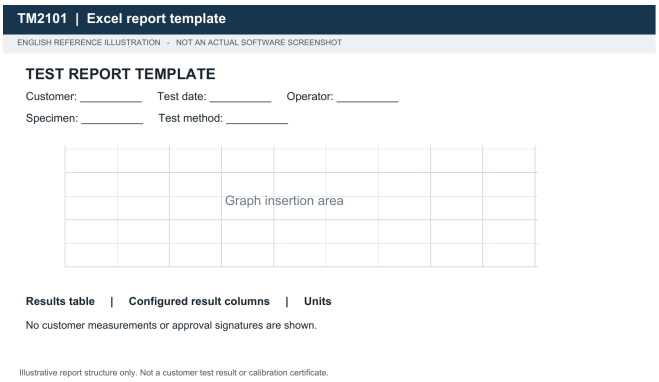
Review the force-displacement curve, compare selected results and mark the points needed for the report.

Prepare a report

Use the configured Word or Excel template to record specimen details, results, units and curves.



Curve review and data points



Report template and fields

Care and service

Install the machine on a stable surface and allow adequate ventilation. Do not move it during operation. Clean it after use, wipe the controller with a dry cloth, and lubricate the mechanical components as directed in the operating manual.

If the machine behaves abnormally, stop using it. Do not bypass travel limits or open live panels. Give Hung Ta the model, serial number and a brief description of the fault.

Contact Hung Ta for help with commissioning, software setup, verification and report configuration.

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