

Product Information

testControl II for servo-hydraulic (single axis and double axis)

CTA: 95022 95023



testControl II with remote control



With housing open

Range of application

testControl II measurement and control electronics represent a universal controller for various drives used in materials testing.

The version developed for servo-hydraulic testing machines allows control of hydraulic linear or torsion testing actuators, used free-standing or in a testing machine.

The controller can be used for static, quasi-static, oscillating and dynamic tests on materials, components and complete structures.

The double axis controller is used for combined tension and torsion axis actuators.

Advantages and features

testControl II's 10kHz control frequency enables rapid reaction to events during the test, combined with a high measured-value acquisition rate. When combined with the 24-bit resolution, this enables very precise measurements.

The use of industry standards (e.g. PCIeexpress) makes these electronics highly flexible and future-proof.

- synchronous measured-value acquisition at 10 kHz for precise measurements
- 10kHz control frequency for precise control, enabling rapid reaction to spontaneous events.
- 24-bit measurement-signal resolution over the entire measurement range for maximum data accuracy
- high data-throughput to test-bench computer via Gigabit Ethernet interface
- maximum operator safety through 2-channel safety circuits and operating-mode selector-switch for set-up and test modes
- 6 freely selectable slots in basic system: 5 module slots and 1 PCIe slot
- One remote control for single or double axis controllers

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Technical data	single axis / double axis
Control frequency	10 kHz
Measured-value acquisition, arithmetical	10 kHz, 24 bit
Integrated safety concept	2-channel specification for maximum safety Interface for interlocked safety doors Interface for emergency stop link
Slots	5x module bus ¹⁾ 1x PCI Express
PC interface	GigaBit Ethernet
Hydraulic interfaces	2x servo valves ²⁾ 1x hydraulic connection unit 1x hydraulic power pack 1x leak oil pump 1x load frame hydraulics (clamping and adjustment)
Additional interfaces	1x SATA for optional hard drives 3x USB
Electrical supply	85..260 V, 47..63 Hz, 700 W
Dimensions (HxWxD), approx.	510 x 135 x 525 mm
Weight	19 kg

1) Single axis: 2 Module slots occupied by force measurement and displacement measurement
Double axis: 4 Module slots occupied by axial force, axial travel, torque and angle of rotation

2) Double axis: 1x servo valve per axis

Overview

Description	ArticleNumber
testControl II in V-tower housing	1008873
testControl II in H-tower housing	1008874
testControl II in SH 19" rack	1008875
testControl II in SH 19" cabinet	1008876

Accessories	Description	Item No.
Display-equipped remote control	<EMERGENCY STOP> button	
• single axis	Key switch for switching between	092108
• double axis	setup and testing modes	1104235
Universal measurement amplifier	Either AC or DC supply DMS, half and full bridge 4 and 6-conductor technology	029443
IO card	1 analog \pm 10V input (controllable) 2 analog \pm 10V outputs 4 digital inputs, 24 V 3 digital outputs, 24 V 1 relay output, potential free	029448
Cable set	Combined actuator	
• 10 m		3012874
• 5 m		3012875