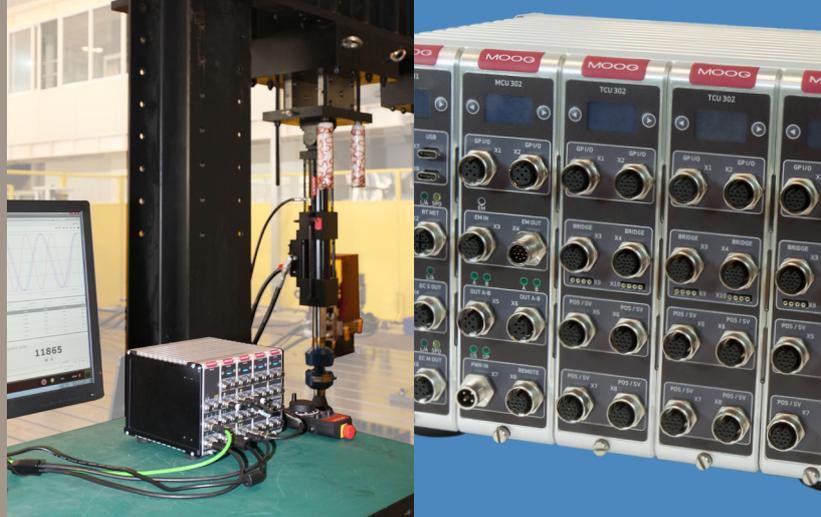
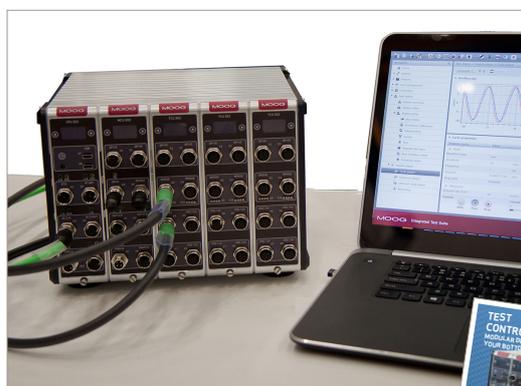


# UPGRADE YOUR TEST CONTROLLER FROM ANALOG TO DIGITAL

New Digital Moog Test Controller



## SWITCH TO PLUG AND PLAY DIGITAL CONTROL AND BOOST YOUR LAB'S OPERATION AND OUTPUT



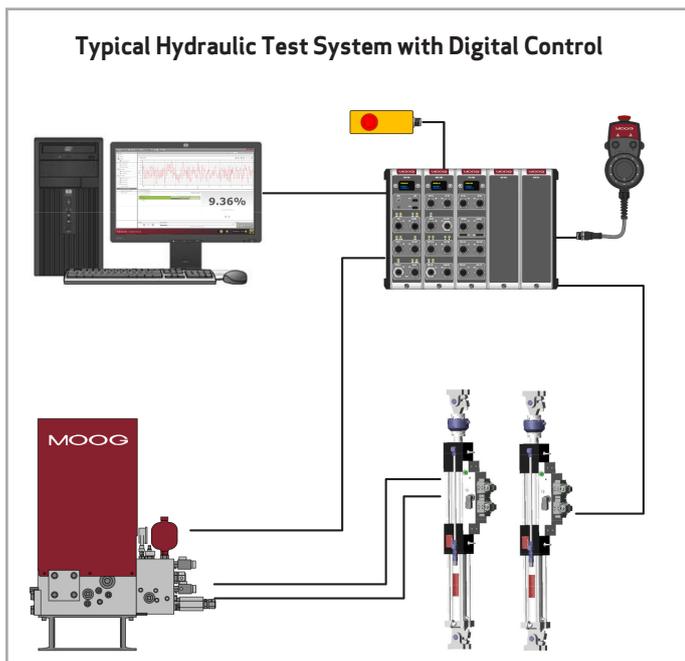
**Moog Digital Test Controller -**

ask for our full brochure with additional module details.

## TAKE A LOOK AT WHAT A DIGITAL CONTROLLER CAN DO OVER AN ANALOG CONTROLLER

Available Feature	Analog Controllers	Moog Digital Controller	Moog Digital Controller Advantages
PID Control Loop	√	√+	5 optional control loops for simple to difficult control
Bumpless Force/Position Mode Switching	-	√	Mode switch during block cycle tests for automatic positioning then force cycling, for example
Program Block Cycle Profiles	-	√	Built-in ramp, cycle, script action, or drive file instructions to design any test
On-board Function Generator	√	√+	7 available waveforms, software selectable phased control for 1 or more channels simultaneously
External Command Accepted	√	√+	Can accept or provide external signals; application software internally generates sweep, vibration or real time commands
Amplitude & Phase Matching	Extra card	√	Built-in as standard
Built-in Data Acquisition	-	√	Record and visually monitor dozens of I/O parameters per channel and overall controller signals
Integrate Analog/Digital I/O	-	√	8 available multi-purpose inputs and 2 available outputs per channel
Single Axis Control	√	√+	Single and multi-axis available in one modular controller
Single and Multiple Station Control	-	√	Manifold control unit provides 2-4 dependent channel control or 1 independent station control with 6 channels of additional I/O, add MCUs per station
Solenoid on/off Switching	√	√+	2 independent or 4 total output pairs, expandable
Safety Limits	√	√+	22 available limit parameters per channel; safety relay meets international safety standards
Oscilloscope and Meters	√	√+	View multiple signals on one scope, view multiple scopes and meters simultaneously
Easily Expandable and Upgradeable	-	√	Available Manifold, Channel, I/O or Bridge conditioning modules enable cost effective expansion as needs change
Cable Sets	√	√+	Commercially available molded cables with sensor connectors easily replace previous cables and enable extension as setup locations change
Support	Limited at end of life	√	Latest technology protects your long term investment with clear modular upgrades to extend life

## SEAMLESSLY REPLACE YOUR DATED ANALOG CONTROLS WITH MODERN DIGITAL CONTROLS



### Common Applications:

- Fatigue or ultimate strength tests on suspension components, body or frame sections
- Control of hydraulic, electric or pneumatic actuators
- Load frames for component or material tests
- Single Axis or multi-axis test rigs
- Multi-Axis Simulation Table or Four Post Road Simulator

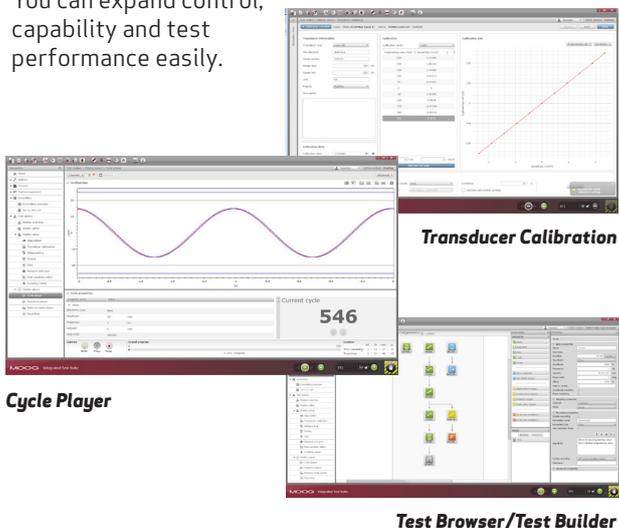
Use all of the digital controller features when replacing analog controllers, or let the digital controller command your existing analog controller and use the additional analog and digital I/O with data acquisition!

### GET EVEN MORE OUT OF A DIGITAL CONTROLLER

Optional application software can be installed in the same PC to run fit-for-purpose tests.

### POWERED BY MOOG INTEGRATED TEST SUITE

Our software runs on most PC's and is the core to operating complex tasks in easy-to-use ways. You can expand control, capability and test performance easily.



### Moog Replication

Replicate time history files using state-of-the-art algorithms in an easy yet powerful way



### Moog Runner

Build complex, nested durability tests through simple instructions. Run and monitor the progress of the durability test and specimen



### Moog Sinesweep

Measure the resonant frequencies of your test specimen. Run sine sweep durability tests



### Moog Vibration

Run real-time closed loop control to defined random vibration frequency spectra (PSDs)



Moog has offices around the world. For more information or the office nearest you, contact us online.

e-mail: [info@moog.com](mailto:info@moog.com)  
 USA: +1 716 652 2000  
 The Netherlands: + 31 252 462 000  
 China: +86 21 2893 1600

CALL US TO FIND OUT HOW OUR TECHNOLOGY CAN TAKE YOU FROM ANALOG TO DIGITAL...NOW!

## [www.moog.com/testcontroller](http://www.moog.com/testcontroller)

Moog is a registered trademark of Moog Inc. and its subsidiaries. All trademarks as indicated herein are the property of Moog Inc. and its subsidiaries. ©2018 Moog Inc. All rights reserved. All changes are reserved.

Analog to Digital Test Controller  
 TJW/Rev. -, August 2018, CDL55783-en

This technical data is based on current available information and is subject to change at any time by Moog. Specifications for specific systems or applications may vary.

**MOOG**