

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Moog / FCS SmarTEST ONE* at our website: ***Click HERE***

Automotive

SmarTEST ONE

1 to 4 channel servo controller











SmarTEST ONE

This stand-alone digital controller can be used without a PC and can handle from 1 up to 4 channels. The controller includes the unique FCS force loop technology and has the capability, besides manual control and constant amplitude tests, to apply complex automotive sequence spectra to multiple test articles.

Link SmarTEST ONE to a PC to get more test functions and integration of the FasTEST Software.

FCS Automotive is part of FCS Control Systems BV

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

SmarTEST ONE

Specifications

Key Features

- From 1 to 4 channels in stand alone mode
- Pseudo channels to create online calculated channels using formula's
- Integrated oscilloscope display
- Data storage capability on local hard-disk
- Immediate history display of graphical data with zoom-in function
- Compatible with all common data file formats
- User defined connectors due to flexible SCU connection panel concept
- Data-Acquisition (up to 2500 Hz/Ch. measured)
- Scripting for Digital & Analog I/O as well as Limits and Peak Detectors
- Log File
- 'Dying Seconds' flight recorder
- Adaptive Model Based Control (AMC) at 5 kHz and 10 kHz
- Multiple types of limits per I/O (Alert, Script, Shutdown)
- One Off/Low/High HSM Control
- Built in web server
- SMC option for additional channels

Options

- PC-coupling
- Extendable
- FasTEST Software

Power Requirements

• Input	95 ~ 240 V AC 47 ~ 63 Hz

Function Generation

• Frequency range	0.01 to 500 Hz
• Multi-channel	Function generation with defined "mixer" functions (e.g. mix a low frequency offset with a higher frequency load)
• Waveforms	Sine, haversine, block, ramp, rounded ramp, random

- Playback of large sequence spectrums
- Constant amplitude matching

Controller

- Automatic or manual tuning
- FCS' unique force loop servo control
- Control based on feedback of any input
- Multiple control possibilities (e.g. force, acceleration and displacement)
- Unique control concept with integral force / acceleration and position loop

Standard Inputs (per channel)

- 2 x 18 bit resolution with selectable gain and ± 5 V bridge excitation for load cells, pressure transducers etc.
- Pot meter (± 5 V, 5 mA) or LVDT input 18 bit (5 V RMS @ 3.5 kHz LVDT excitation)
- 18 bit A/D converter, ± 10 V differential
- 2 opto-coupled digital inputs

Test Modes

- Cycle / Set-point control
- Drive file playback
- Static / Strength testing using a predefined set of loads
- Sequencing

Standard Outputs (per channel)

- 100 mA or ± 10 V valve driver output with a software limit from 0 to 100%
- 2 x 16 bit D/A converters, ± 10 V differential
- 2 opto-coupled digital outputs

FCS Control Systems B.V.
Fokkerweg 300
1438 AN
Oude Meer
The Netherlands

Telephone +31 20 605 4570
Fax +31 20 605 2524
E-mail: automotive@fcs-cs.com
Web-site : www.fcs-cs.com

FCS Kelsey Ltd.
Unit 6, The Hen House
Oldwich Lane West, Chadwick End
Solihull, West Midlands, B93 0BJ
United Kingdom

Telephone +31 44 1564 784777
Fax +44 1564 785 846
E-mail: automotive@fcs-kelsey.com
Web-site: www.fcs-kelsey.com

FCS COM, Inc.
781 Avis Drive - Suite 300
Ann Arbor
MI 48108
USA

Telephone +1 734 302 5060
Fax +1 734 302 5061
E-mail: automotive @fcs-com.com
Web-site: www.fcs-com.com

FCS China
13th Floor, Building A, Keyuan Building
No. 105 Xisanhuanbei Road
Beijing 100037
P.R. China

Telephone +86 10 8841 5078
Fax +86 10 8841 5001
E-mail: fcs_china @sina.com
Web-site: www.fcs-cs.com

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP