Digital Servo Controller



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Auto motive

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

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

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

Test Modes

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

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

Standard Inputs (per channel)

- 2 x 18 bit resolution with selectable gain and ± 5 V bridge excitation for load cells, pressure transducers
- 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

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

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