



THROTTLE POSITIONING SYSTEM

- ◆ Closed Loop Stepper Control
- ◆ Flexible Configuration
- ◆ Ethernet Interface
- ◆ High Resolution
- ◆ High Speed
- ◆ Stainless Steel Throttle Handles

The Universal Throttle Solution

The N-GEN™ computer-based throttle positioning system provides efficient, highly-reliable control of both electrically and mechanically linked engine throttles. The N-GEN™ series incorporates a modular design to allow a single core system to adapt to an endless array of requirements. N-GEN™ series throttles are available in both electric and mechanical outputs. Basic configurations incorporate a closed loop stepper motor system to provide high precision and repeatable results. Electric throttle outputs can also be accomplished through the use of various output types including RVDT, Resolver, and DC Volts.

FEATURES AND OPTIONS

BASIC SYSTEM

Control Panel
Computer Control Unit

FEATURES

Closed Loop Stepper Control

Fly-By-Wire
Continuous Position Feedback

Flexible Configuration

Menu Driven Setup
Vacuum Florescent Display
Multiple Engine Capability
Pushbutton Switch Interface

Ethernet Interface

Remote Position Output
Remote Control Input

Stainless Steel Throttle Handles

Mechanical Stops
Electric Override

High Resolution

Mechanical Output 0.1° typical
Electric Output 12-bit minimum
Handle < 0.1° full range

High Speed

Mechanical 270°/sec. Typical
Electric 0.1°/sec. max Full Range

Safety Bypass Circuit

Secondary Stepper Output
Independent of Computer System



OPTIONS

Single or Dual Outputs

OS1/OS2 – Stepper Motor
OE1/OE2 – Electric
OC1 – Combination

Stepper Motor Output Options

-OET – Extended Temperature
-40° C to 150° C
-OH – Hazardous Area

Electric Throttle Output Options

-ORV – RVDT
-OR – Resolver
-ODC – Vdc

Secondary Repeat Signal

-OSDC – Vdc
-OSRV – RVDT
-OSR – Resolver

Stepper Linkage Interfaces

Engine/Facility Interfaces
-ORL – Rotary Linkages
-OLL – Linear Linkages

The EADS North America Defense Test and Services policy is one of continuous development, consequently the equipment may vary in detail from the description and specification in this publication.



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