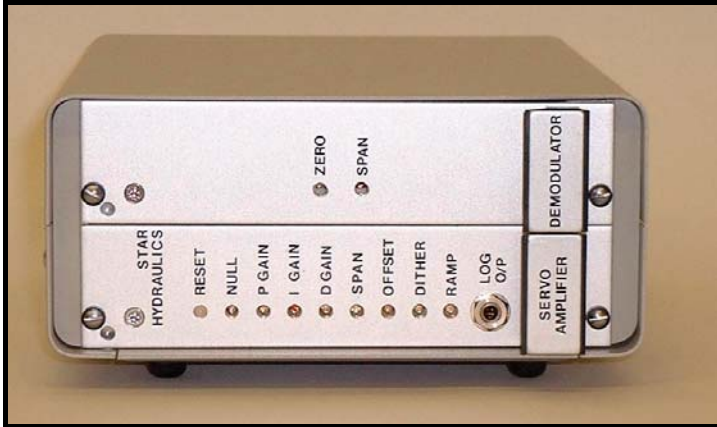


# Fully Functioned PID Servo Valve Amplifier + LVDT Demodulator Unit

**Type No.: STE3010**

STE3010 Front Panel



The STE3010 combined amplifier / demodulator enables a system containing a servo valve with external LVDT positional feedback to be configured easily and efficiently.

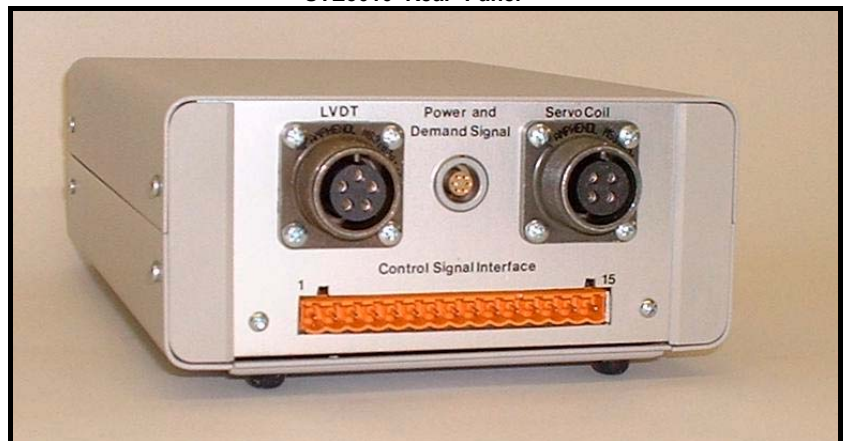
The heart of the system is the fully configured PID Servo Amplifier, which provides the control current drive to the servo valve. The servo amplifier section contains a multiple Summing Amplifier, Proportional, Integral and Derivative Control, Ramp Generator and Dither Oscillator all on one Eurocard size PCB. Coarse and Fine current gain control is provided and Feedback Polarity is link selectable on the card. Complimenting this amplifier is the LVDT Demodulator, containing both Excitation and Demodulation sections. A choice of two, selectable, excitation frequencies, 5KHz and 10KHz, make it suitable for driving most commonly available LVDTs. The demodulator section has Coarse and Fine adjustments on both the Zero and Span. Multi-turn potentiometers are accessible from the front panels for all fine control adjustments, while coarse adjustments are effected by link selectable settings on the boards. These features enable very accurate control to be achieved when setting up or commissioning your system. An external Integrator Reset is provided for safety in the event of pressure loss in the system.

The STE3010 can be supplied as an OEM item, for inclusion into custom systems, together with all necessary documentation for installation and set up, or together with a Servo Valve, to the customers specification, as a completely functioning system, including all interconnecting cables.

Please contact our Sales or Technical Departments, by telephone or fax, for further information or e-mail us at the following address;

[sales@star-hydraulics.co.uk](mailto:sales@star-hydraulics.co.uk)

STE3010 Rear Panel



## Features Include

- Summing Amplifier
- Up to +/- 150mA Current Drive
- Dither Oscillator
- Ramp Function
- Coarse and Fine Current Gain Adjustment
- Integrator Reset Control
- Output Protection
- 5KHz and 10KHz Selectable LVDT Excitation
- Coarse and Fine LVDT Zero Adjustment
- Coarse and Fine LVDT Span Adjustment
- All I/O Connections via removable connectors on the rear panel

## Technical Specifications

|                   |                                                            |                      |       |
|-------------------|------------------------------------------------------------|----------------------|-------|
| Power Supply:     | +/- 15VDC @ 200 mA + valve                                 | Exterior Dimensions: |       |
| Max. Servo Drive: | Up to +/- 150mA                                            | Width:               | 145mm |
| Command Input:    | +/- 10V Differential or Single Ended<br>or Bipolar Current | Height:              | 75mm  |
|                   |                                                            | Length:              | 250mm |

In our continual endeavour to improve our products these specifications may change without notice.