

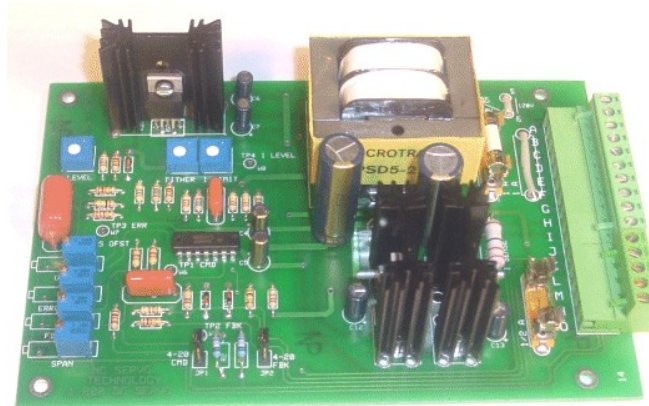
**NC Servo Technology
NCSA-110-300
Servo Amplifier**

***Versatile – Reliable - Reasonably priced
for all types of servo valves***



Serving Industry Since 1975 With
***Quality Repairs On Automation
Controls***

Electronics * Hydraulics * Pneumatics * Magnetics



- **Output Current up to 250ma**
- **Input Reference + - 10V or 4 to 20ma**
- **Feedback input + - 10V or 4 to 20ma**
- **+ - 15V regulated power output available at terminals**
- **Current output adjustable from 0 to maximum (100ma or 250ma)**
- **Feedback gain adjustable from 2:1 as well as reference span and proportional error gain from 200:1**
- **Clearly labeled test points and components**
- **500 Hz Dither oscillator**

The NCSA-110-300 is a general purpose amplifier capable of filling a variety of needs for closed loop control of servo valves. This design replaces many other amplifiers for a more consistent layout and increased serviceability.

Its versatility stems from the fact that its maximum output current can be adjusted from 0ma to 100ma as shipped or to 250ma with a simple component change. The NCSA command and feedback inputs can be either current or voltage and are fully adjustable to cover a wide range of sensors and command sources.

A regulated power supply of + - 15V at 200ma is available at the terminal strip to power various sensors or auxiliary equipment.

NC Servo Technology

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www.ncservo.com

NC-SA-110-300

- A. Earth Ground
- B. 120V AC power input
- C. 120V AC power input
- D. -5V Reference voltage output to offset current sources (jump to aux input)
- E. DC Feedback input. Scaled by FBK GAIN pot.
- F. Input to current amp. Test point to monitor current command
- G. Positive 15V output
- H. 0V output
- I. Negative 15V output
- J. DC Command input. Scaled by SPAN pot.
- K. DC Feedback connection with compensation network to improve response of feedback.
- L. Secondary command input bypassing span pot
- M. Error amp output (Command – feedback) used to monitor error amp output.
- N. Negative current amp output to valve. DO NOT USE FOR ANY OTHER GROUNDING.
- O. Positive current amp output to valve.

