

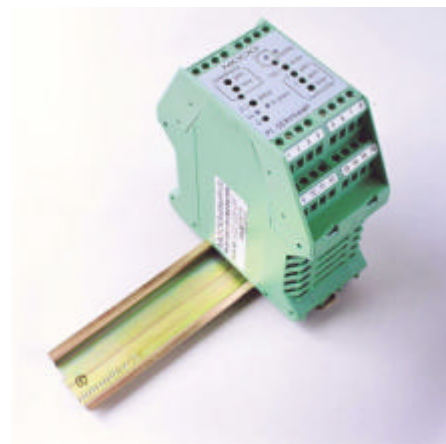


## Servo Amplifier Improvements

The DIN servoamplifier G122-824-001 has been updated to version G122-824-002. This is a functional replacement for the -001 with the following new features:

- 4-20 mA is available at input 2.
- Output step push button to assist with loop optimising.
- Improved thermal performance.

These added features are provided at no additional cost and offer the potential for new applications such as turbines where 4-20 mA command and feedback is required.



All future shipments will be for the G122-824-002 version.

Data Sheet and Application Notes are now posted to [www.moog.com](http://www.moog.com).

Please also note that if you are using the older model G122-824-001 it is necessary to use the previous Application Notes to reflect the lower functionality. Both the -001 and -002 Application Notes are available at the Moog website.

## Featured Highlights

- G122-824 servoamplifier now includes 4-20 mA input.
- New power supplies for 24VDC at 650mA and 2 Amps.
- Mobile servoamp for Lock Crane leveling.



## New Power Supplies

The Moog range of DIN module power supplies has been recently released for use in analog and digital systems operating from 24 volts DC. There are two sizes available with G128-808 for 650 mA and G128-809 for 2 Amps; but each can be operated to a higher output current subject to voltage, duty cycle and ambient temperatures. Details regarding these higher operating limits can be found in the Application Notes for these products.

The smaller G128-808 is suited to control systems with low power control valves such as mechanical feedback [MFB] or electrical feedback [EFB] valves with low power pilots. For valves such as the Moog Direct Drive [DDV] models D633, D634, the G128-809 can be applied to provide power to both the control system and valve electronics.

Features include:

- Wide range of AC or DC input.
- Regulated +24 VDC, low ripple output.
- Idle and short circuit protected.
- Isolation from input supply
  - G128-808 @ 3kV,
  - G128-809 @ 4 kV
- High efficiency, >80%.
- High reliability, 500,000 MTBF.
- Parallel connection for redundant operation.
- CE marked.

For more information, including Data Sheets and Application Notes, refer to ..... [www.moog.com/dinmodules](http://www.moog.com/dinmodules)



## Mobile Servoamp for Lock Crane Leveling

Located on the River Murray in South Australia is a series of locks for flood control. Concrete beams are lowered into slots to vary the height of underwater barriers.

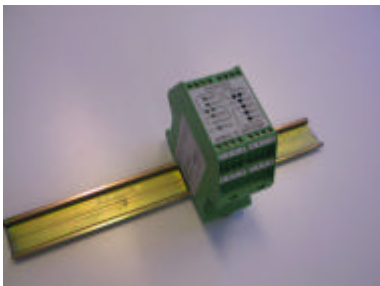
The task of the control system is to simplify the control of the excavator boom to achieve an accurate horizontal movement of the beams as they are moved into position.

A closed loop position control with feedback from a pendulum sensor has been applied with the following components:

- M631 servovalve with “outdoor” environment protection.
- Mobile servoamplifier G122-826-002
- Pendulum level sensor D133-121-A013

The new mobile servoamplifier was chosen due to its suitability to operate directly from standard “automotive” style power supplies without the risk of electrical damage. DIN style packaging meant that a compact and reliable installation could be achieved in this relatively harsh environment.

This amplifier is available on a limited basis and will be fully released with documentation in early 2003.



### Mobile Servoamplifier G122-826

- Power supply filter is suitable for “automotive” use where severe voltage spikes will damage electronic circuitry.
- Complex non-linear amplifier allows for many different types of compensation.
- 50mA maximum output [not 100mA].
- Frequency to voltage converter option for pulse picks up feedback with velocity loops.