

## 12 VDC coil with embedded proportional amplifier, current command

Model:  
**790-2B12A**

The Embedded Electronics Amplifier is a compact, low profile coil/controller combination for use with proportional solenoid valves. The Amplifier provides current to the coil in proportion to an input signal. Bright LED indicators on the unit provide an overview of the operating status. Setup is accomplished through Sun's Amplifier Set Up Software or the Hand Held Programmer (HHP). There is no cover to remove and no tiny pots to set. Once configured, the settings are stored in permanent memory within the unit.



### Technical Features

- Easily configured using Sun's Amplifier Set Up Software or the Hand Held Programmer.
- Standard DIN 43650-Form A Connector - 4 pin
- Adjustable current limited output with short circuit protection
- Adjustable ramp up and ramp down times, independently set
- Separate supply and command common
- CE approved - See **CE Testing Results and Explanation**, document number 999-991-260, for details
- LED indication of Status and Output Current
- Selectable dither frequency up to 300 Hz including OFF. Sun's recommended dither frequency is 140 Hz.
- All input and output limits are independently adjustable
- Microprocessor controlled for consistent, reliable performance
- Glass filled nylon enclosure with Lexan light pipes and polyurethane potting compound
- Power cable with mating connector is required and is not included with product.

### Technical Data

	U.S. Units	Metric Units
Output Current	1200 mA	
Analog Input Impedance	250 ohms	
Analog Input Range	0-20 mA	
Card Function	Ground Option	
Dither Settings	Off, 80-300 Hz, in 20 Hz increments	
Ramp Time	0-120.0 s, 0.5 s increments	
Supply Current	I(sol) + 20mA	
Voltage/Frequency	12 VDC	
Supply Voltage	Equals coil voltage within +/-10%	
Operating Temperature Range	-4 - 158 °F	-20 - 70 °C
Connector Environment Rating	IP65	
Connector	ISO/DIN 43650A, Form A	
Model Weight	0.40 lb.	0.18 kg.

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## 790-2B12A

U.S. Dollar ▼

**Recommended List Price**  
Shipping and Discount Terms

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### What models can this kit be used on? ( [Click Here](#) )

FMDA	FMDB FPCC	FPCH PRDL	PRDM PRDN	PRDP PSDL	PSDP	RBAN	RBAP
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### Display Components ( [Click Here](#) )

	Description	Quantity
753-026	Electrical Components	1
790-012	Electrical Components	1
753-028	Electrical Components	2
753-029	Electrical Components	2
753-032	Electrical Components	1
999-991-236	Information Sheet	1
753-049	Potting Compound	1
753-050	Potting Compound	1

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### Related Information

Information sheet 999-991-236 in pdf format  
CE Testing Results and Explanation document in pdf format  
Environmental Test Specification, S-367 in pdf format

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### Instructions/Notes

- A source type input is required. A sinking type analog input will damage the amplifier.