



DT04-6P Connector



Terminal	Function
1	+V Supply
2	Command Input
3	Supply Common
4	+5 V Reference
5	Command Common
6	Enable



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 downloadable app with a wireless bluetooth low energy connection. 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 DATA

Output Current	600 mA
Supply Current	I(sol) + 25mA
Reference Voltage	5V (4.6V at 250mA)
Dither Settings	Off, 33-500 Hz, in 1 Hz increments
Analog Input Range	0-10V, 0-5V, or 0-20mA
Analog Input Impedance	10 Kilo-ohms (Voltage Command Mode), 250 ohms (Current Command Mode)
Ramp Time	0-65.0 s, 1 ms increments
Card Function	All Options
Voltage/Frequency	24 VDC
Supply Voltage	18-32V, 24V recommended
Operating Temperature Range	-20 - 80 °C
Connector	Deutsch DT04-6P

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

USED WITH

FMDA	FMDB	FPCC	FPCH	FPHK	PRDL	PRDM	PRDN	PRDP	PSDL
PSDP	RBAN	RBAP	991-706-003	991-706-006					

TECHNICAL FEATURES

- LED indication of Status and Output Current
- Adjustable current limited output with short circuit protection
- 5 Volt reference for potentiometer/joystick controls
- Programmable enable input
- All input and output limits are independently adjustable
- Adjustable ramp up and ramp down times, independently set
- Microprocessor controlled for consistent, reliable performance
- Deutsch DT04-6P Connector, IP69K rated
- Separate supply and command common
- Selectable dither frequency up to 500 Hz including OFF. Sun's recommended dither frequency is 140 Hz.
- CE approved

- Setup is accomplished through Sun's [AmpSet Blue™ app](#) with a wireless bluetooth low energy connection.
- Glass filled nylon enclosure with polyurethane potting compound
- The coil is magnetically symmetrical and can be mounted in either direction on the solenoid tube without affecting performance.
- Power cable with mating connector is required and is not included with product.

USED WITH

What models can this kit be used with?

- [991-706-003](#) Deutsch DT06-6S cable assembly
- [991-706-006](#) Deutsch DT06-6S cable assembly
- [FMDA](#) Electro-proportional 3-way flow control valve, meter in
- [FMDB](#) Electro-proportional 3-way flow control valve, meter in
- [FPCC](#) Electro-proportional flow control valve - normally closed
- [FPCH](#) Electro-proportional flow control valve - normally open
- [FPHK](#) Pilot operated, normally closed, electro-proportional throttle with reverse flow check
- [PRDL](#) Electro-proportional, direct-acting, pressure reducing/relieving valve with open transition
- [PRDM](#) Electro-proportional, direct-acting, pressure reducing/relieving valve with open transition - high pressure setting with no command
- [PRDN](#) Electro-proportional, direct-acting, pressure reducing/relieving valve, high pressure setting with no command
- [PRDP](#) Electro-proportional, direct-acting, pressure reducing/relieving valve
- [PSDL](#) Electro-proportional, direct-acting, pressure reducing/relieving valve with open transition and drain to port 4
- [PSDP](#) Electro-proportional, direct-acting, pressure reducing/relieving valve with drain to port 4
- [RBAN](#) Electro-proportional relief valve - pilot capacity, high pressure setting with no command
- [RBAP](#) Electro-proportional relief valve - pilot capacity