



# Embedded Electronics, Bluetooth Embedded Amplifier

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## Cavity Information

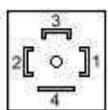
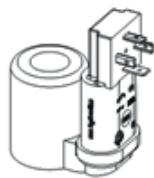
Series	Ports	Cavities
<b>Series Z Cartridges</b>  3/8-24 UNF Cartridge Thread 5 mm Valve Hex Size 11 - 14 Nm Valve Installation Torque	2-Port	T-382A
<b>Series P Cartridges</b>  M16 Cartridge Thread 22,2 mm Valve Hex Size 27 - 33 Nm Valve Installation Torque	2-Port 2-Port (Deep) 3-Port	T-8A T-8DP T-9A
<b>Series 0 Cartridges</b>  M16 Cartridge Thread 19,1 mm Valve Hex Size 25,4 mm Valve Hex Size 27 - 33 Nm Valve Installation Torque	2-Port 2-Port (Deep) 3-Port	T-162A T-162DP T-163A
<b>Series 1 Cartridges</b>  M20 Cartridge Thread 22,2 mm Valve Hex Size 41 - 47 Nm Valve Installation Torque	2-Port 2-Port 3-Port 4-Port 4-Port 6-Port	T-10A T-13A T-11A T-21A T-31A T-61A
<b>Series 2 Cartridges</b>  1"-14 UNS Cartridge Thread 28,6 mm Valve Hex Size 61 - 68 Nm Valve Installation Torque	2-Port 2-Port 3-Port 4-Port 4-Port 4-Port (Dual path) 6-Port 6-Port	T-3A T-5A T-2A T-22A T-32A T-52AD T-52A T-62A
<b>Series 3 Cartridges</b>  M36 Cartridge Thread 31,8 mm Valve Hex Size 203 - 217 Nm Valve Installation Torque	2-Port 3-Port 4-Port 4-Port 4-Port (Dual path) 6-Port 6-Port	T-16A T-17A T-23A T-33A T-53AD T-53A T-63A
<b>Series 4 Cartridges</b>  M48 Cartridge Thread 41,3 mm Valve Hex Size 474 - 508 Nm Valve Installation Torque	2-Port 2-Port (Undercut) 3-Port 3-Port (Undercut) 4-Port 4-Port (Undercut) 4-Port 4-Port (Dual path) 6-Port 6-Port	T-18A T-18AU T-19A T-19AU T-24A T-24AU T-34A T-54AD T-54A T-64A

MODEL  
7902B12B

12 VDC coil with embedded proportional Bluetooth amplifier, voltage or current command



snhy.com/7902B12B



DIN 43650-Form A Connector

Terminal	Function
1	Supply Common
2	+V Supply
3	Command Input
4	Command Common



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	1200 mA
Supply Current	$I_{(sol)} + 25\text{mA}$
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	Ground Option
Voltage/Frequency	12 VDC
Supply Voltage	10.8-18V, 12V recommended
Operating Temperature Range	-4 - 176 °F
Connector	ISO/DIN 43650, Form A, 4-pin
Connector Environment Rating	IP65

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

## USED WITH

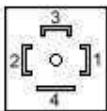
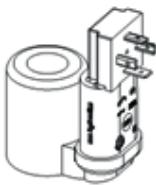
FMDA      FMDB      FPCC      FPCH      FPFK      FPHK      PRDL      PRDM      PRDN      PRDP  
PSDL      PSDP      RBAN      RBAP

MODEL  
7902B24B

24 VDC coil with embedded proportional Bluetooth amplifier, voltage or current command



snhy.com/7902B24B



DIN 43650-Form A Connector

Terminal	Function
1	Supply Common
2	+V Supply
3	Command Input
4	Command Common



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
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	Ground Option
Voltage/Frequency	24 VDC
Supply Voltage	18-32V, 24V recommended
Operating Temperature Range	-4 - 176 °F
Connector	ISO/DIN 43650, Form A, 4-pin
Connector Environment Rating	IP65

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

## USED WITH

FMDA  
PSDLFMDB  
PSDPFPCC  
RBANFPCH  
RBAP

FPPK

FPHK

PRDL

PRDM

PRDN

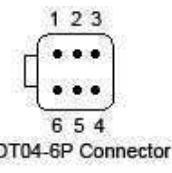
PRDP

MODEL  
**7904A12B**

12 VDC coil with embedded proportional Bluetooth amplifier, voltage or current command



snhy.com/7904A12B



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



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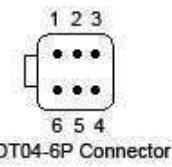
## TECHNICAL DATA

Output Current	1200 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	12 VDC
Supply Voltage	10.8-18V, 12V recommended
Operating Temperature Range	-4 - 176 °F
Connector	Deutsch DT04-6P

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

## USED WITH

FMDA PSDL	FMDB PSDP	FPCC RBAN	FPCH RBAP	FPPK 991706003	FPHK 991706006	PRDL	PRDM	PRDN	PRDP
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[snhy.com/7904A24B](http://snhy.com/7904A24B)


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



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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	-4 - 176 °F
Connector	Deutsch DT04-6P

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

## USED WITH

FMDA PSDL	FMDB PSDP	FPCC RBAN	FPCH RBAP	FPPK 991706003	FPHK 991706006	PRDL	PRDM	PRDN	PRDP
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