

High Country Tek, Inc.

Electronic Valve Controller **C**

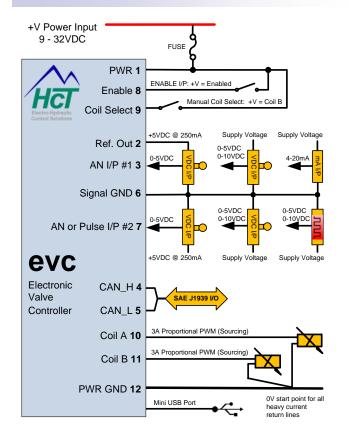
Multi-Function SAE J1939 Compatible Module

Electronic Control Solutions for the Global Fluid Power Industry

Application Information

- Controls 2x proportional pressure / flow / directional valves
- Multiple open and closed loop mode options
- SAE J1939 expansion 'Node' and/or system compatibility
- SAE J1455 (load dump) compliant power protection
- Windows[™] software user interface for configuration
- System "Status" LED with blink code & data logging
- Mini USB connection to PC for set-up/diagnostics

Electrical Connection Diagram





Controller Specification

Housing Type	HCT encapsulated block
Power Supply Voltage	9 to 32VDC (Absolute maximum)
Current Consumption	Valve current + 50mA Quiescent (Max)
Command Inputs	SAE J1939 2x switched inputs (ON/Off) 2x analog inputs One with (0-5V, 0-10V, 4-20mA) One with (0-5V, 0-10V, Pulse or Freq 3 to 30KHz)
Input Impedance	Voltage & Freq. inputs = $100k\Omega$ 4-20mA input = 100Ω
Outputs	2x 3A proportional PWM (Sourcing) (Short circuit protection and open circuit alert) 1x 5VDC ±10% (Regulated voltage @ 250mA)
PWM Dither Freq.	Software adjustable - 33 to 500Hz
Module Connector	DTF15-12PB, 12-way Male
Communication	Mini-B USB standard
Housing Material	Black, Polycarbonate
Encapsulation	Flameproof epoxy resin
Mounting	2x No.8 (5mm) screws
Temperature Range	-40 to +85°C (Operational) -60 to +90°C (Storage)
NEMA/IP Rating	NEMA 6P/IP67, 69K



Single Channel Valve Controller evc

Accessories



023-00259

- PC set-up software
- System diagnostics
- Data logging feature



Connectors / Cables

- 999-10156 Prototype harness
- 108-00134 Communication cable



Joysticks

- SAE J1939 / Hall Effect
- Single or dual axis
- Spring return to center or detent

Dimensions

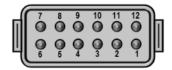


Foot pedals

- SAE J1939 / Hall Effect
- Uni or bi-directional
- + 30° or 45° pedal deflection

Connector Details

View of 12 way male module connector DTF15-12PB



- Pin 1 +Vin, 9 to 32VDC power supply input
- Pin 2 +5VDC @ 250mA regulated voltage output
- Pin 3 Command input (0-5V, 0-10V, 4-20mA)
- Pin 4 CAN_HI (SAE J1939)
- Pin 5 CAN_LO (SAE J1939)
- Pin 6 0V Signal GND
- Pin 7 Pulse input or analog input 2
- Pin 8 Controller enable input (high = enable)
- Pin 9 Manual selection of coil A or B
- Pin 10 Coil A proportional PWM output + (3A, sourcing)
- Pin 11 Coil B proportional PWM output + (3A, sourcing)
- Pin 12 0V Power GND
- Mating 12 Way Connector Kit
- 999-10155
- Qwik-Pick Solution Kit

999-10261

www.hctcontrols.com

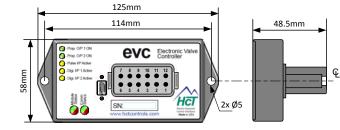


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Notes:

- Controller weight is approx. 200g
- Mount to flat, cool surface.
- Use BOTH mounting lugs for security



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