



High Country Tek, Inc.

Electronic Pump Controller **epc**

Multi-Function SAE J1939 Compatible Module

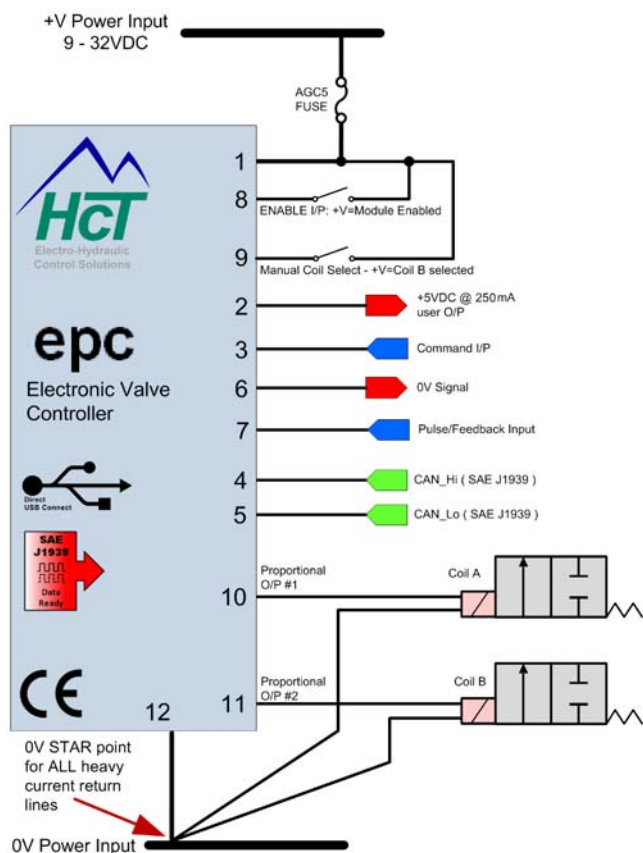
Electronic Control Solutions for the Global Fluid Power Industry

Application Information:

- Controls 2x proportional pressure / flow / directional valves on the pumps
- Multi-Option, selectable mode controller in one package
- 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
- Direct mini USB connection to PC for set-up/diagnostics



Electrical Connection Diagram:



Controller Specification:

Housing Type	HCT unique encapsulated block
Power Supply Voltage	9 to 32V _{dc} (Absolute Maximum)
Current Consumption	Valve current + 50mA Quiescent (Max)
Command Inputs	SAE J1939 2x switches (ON/Off) 1x analog input (0-5V, 0-10V, 4-20mA) 1x analog input (0-5V, 0-10V, Pulse or Freq - 3 to 30KHz)
Input Impedance	Voltage inputs = 100kΩ mA inputs = 100Ω
Outputs	2x 3A proportional PWM (sourcing) (Short circuit protection and open circuit alert) 1x 5V _{dc} ±10% regulated voltage (Max 250mA)
PWM Dither Frequency	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)
NEMA/IP Rating	NEMA 6P/IP67



Single Channel Pump Controller epc

epc 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

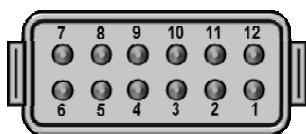


Foot pedals

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

Connector Details:

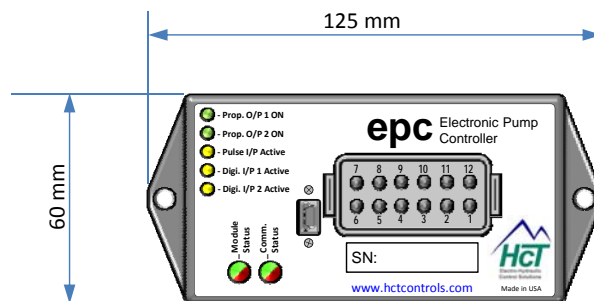
View of 12 way male module connector **DTF15-12PB**



- Pin 1 +Vin, 9 to 32V_{dc} power supply input
- Pin 2 +5V_{dc} @ 250mA regulated voltage output
- Pin 3 Command input
- 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 output + (sourcing)
- Pin 11 Coil B proportional output + (sourcing)
- Pin 12 0V - Power GND

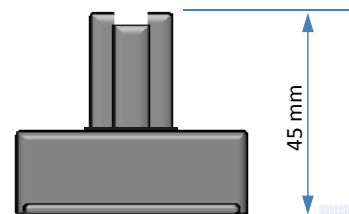
- Mating 12 Way Connector Kit **999-10155**
- Qwik-Pick Solution Kit **999-10260**

Dimensions:



Notes:

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



www.hctcontrols.com



High Country Tek, Inc.

208 Gold Flat Court
Nevada City, CA, 95959
Tel: (1) 530 265 3236
Fax: (1) 530 265 3275
info@hctcontrols.com