

# High Country Tek, Inc.

# Electronic Pump Controller COC

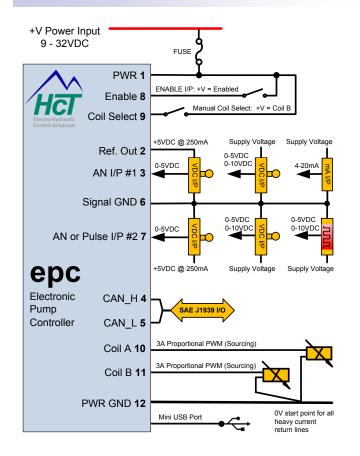
Multi-Function SAE J1939 Compatible Module

#### **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<sup>™</sup> 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**



# Prop. O/P 1 ON Prop. O/P 2 ON Pulse I/P Active Digi. I/P 2 Active Digi. I/P 2 Active Nigregan <li

#### **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 = $100\Omega$
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



### Single Channel Pump Controller 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

125mm

114mm

epc

Electronic

Controller weight is approx. 200g

Use BOTH mounting lugs for security

Mount to flat, cool surface.

НСТ

2x Ø5



Prop. O/P 1 Of

2mn 0/P201

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Notes:

58mm

#### Dimensions



#### Foot pedals

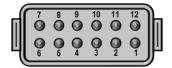
- SAE J1939 / Hall Effect
- Uni or bi-directional
- + 30° or 45° pedal deflection

48.5mm

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#### **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
- 999-10260

## www.hctcontrols.com



A Sun Hydraulics Company

021-00356-RevE

# HCC Electro-Hydraulic Control Solutions

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