



High Country Tek, Inc.

Company Product Information

North American Edition

Electronic Control Solutions for the Global Fluid Power Industry



Introducing the new Dual Path **epc-2**:

The latest **Electronic Pump Controller** solution from HCT.

Designed to simply and proportionally control 2 separate, variable displacement open loop pumps from a single high quality, low cost module.

Pre-loaded software with a **FREE PC user interface** allows easy configuration of settings for each channel, optimizing pump operation to suit the applications need.

Visit our website or contact our customer service team for more detailed information on this innovative product.

High Country Tek, Inc. (HCT)

Started in 1983 and based in California, U.S.A, HCT is continuing to innovate, progressively grow our global market presence, listen to our customers, introduce market driven products and attract industry experienced workforce talent.

We are widely recognized as one of the premier independent suppliers of 'Electronic Control Solutions for the Global Fluid Power Industry' offering a unique range of application ready, easy-to-apply, environmentally ruggedized electronic modules that can be user adjusted locally or programmed to suit virtually any application requiring an electro-hydraulic solution.

Our commitment to the industry is further enhanced by adding the additional capability of being able to integrate our controls with valve and manifold solutions and offer optimized packages that bring real value to you and your customers.



www.hctcontrols.com



Valve and Pump Drivers - Analog Controllers - Easy manual adjustment



HAU:

- **General purpose**
- **Single output** controller
- Open Loop control
- Valve or Pump drive
- 11 to 30VDC supply
- Variable 'Dither' signal

- Up to 3.3A O/P
- Adjustable Ramp(s) - options available
- -20 to +60C operating range
- Voltage OR current command input
- Local reference voltage for joystick or pot.
- Available with Weatherpack connector



HAD:

- **General purpose**
- **Dual output** controller
- Open Loop control
- Valve or Pump drive
- 11 to 30VDC supply
- Variable 'Dither' signal

- Up to 3.3A per O/P
- Adjustable Ramp(s) - options available
- -20 to +60C operating range
- Voltage OR current command input
- Local reference voltage for joystick or pot.
- Available with Weatherpack connector

Plug Top Drivers:

- **General purpose**
- Open Loop control
- 12 or 24VDC versions
- **DIN 43650 interface.**
- Variable 'Dither' signal
- 3A at 12V or 1.5A at 24V supply
- Separate adjustable UP / DOWN Ramps
- -20 to +70C operating range
- Voltage OR Current command input versions
- Local reference voltage for joystick or pot.
- Pre-wired with 10 feet color coded cable
- Fully sealed to NEMA 6P / IP 67



Valve and Pump Drivers - Digital

PowerLine - Multi Function Module:

- ⇒ **Open loop valve or pump driver**
- ⇒ **Horse Power limiting and optimization**
- ⇒ **Anti-stall - Automotive style control**
- ⇒ **Anti-stall with auto reverse feature**



- **Compatible with all major OEM valve and pump coils**
- Single OR dual coil drive capabilities
- Voltage OR Current command input
- 10 to 32VDC supply - reverse polarity protected
- Local reference voltage for joystick or potentiometer
- -40 to +85 degrees C operating temperature
- PC set-up Graphical User Interface (GUI) available

Generator Controller



HGC-2:

- Upgraded technology unit
- Full PID control
- 100 to 240VAC feedback I/P
- 50 or 60 Hz operation
- Small size, light weight
- PC set-up GUI available

Fan System Controllers - Easy PC adjustment



HFS:

- Uni-direction fan drive
- 3 x discrete sensors
- Local LED Diagnostics
- CE compliant
- Designed to meet CE
- PC set-up GUI available



HFS-2:

- Bi-direction fan drive
- 3 x discrete sensors
- Local LED Diagnostics
- CE compliant
- PC set-up GUI available
- Connector options

Manual adjustments



HFS-3:

- Uni-direction fan drive
- PWM signal from Engine ECU
- Local LED Diagnostics
- 12 or 24V versions available
- DIN 43650 Interface
- Pre-wired 10 foot cable

SAE J1939 Compliant Fan System Controller Family



Standard HFS-J Specifications:

- +10 to +32VDC supply range
- SAE-J1455 Load Dump Compliant
- -40 to +80°C Operating temp. range
- SAE-J1939 or SPN 986 temp. data
- 'Reverse' fan feature
- Local LED Diagnostics
- Discrete Alarm output
- Rapid controller startup time
- 12 way heavy duty Deutsch connector
- RS232 separate programming port
- Standard user PC set-up software
- Fully application configurable
- Flame retardant resin potted package

Additional Features and Available Models:

- Use for single or multi-fan systems
- Custom system configurations offered

HFS-J-Bus:

- Added safety features for busses
- Output override for 'heat event' detection

emc-1:

- Electric cooling fan controller interface to SAE J1939
- Low level DC voltage or PWM output

DVC10: Master Controller:

- HCT-CAN inter-module communications
- **8 x Digital inputs**
- **3 x Analog inputs**
- **3 x Universal inputs**
- **3 x PWM outputs**
- **6 x Digital outputs**
- 10 - 32VDC supply with protection
- Diagnostic/Prognostic LED's
- Multi-pole, sealed connectors
- Sealed to IP67/68 (NEMA 6/6P)
- Fully potted construction
- -40 to +85°C operating Temp. Range
- Fully programmable using HCT Intella™ software



For latest information:

www.hctcontrols.com

Expansion Module - DVC 21:

- HCT-CAN inter-module communications
- RS232 for set-up communications
- **20 x Sinking & 20 x Sourcing inputs**
- 10 - 32VDC supply with protection
- Diagnostic/Prognostic LED's
- Multi-pole, sealed connector
- Sealed to IP67/68 (NEMA 6/6P)
- Fully potted construction
- -40 to +85°C operating Temp. Range
- Fully programmable using HCT Intella™ software



Digital Display Unit - DVC 61:

- 4 x 20 character, back Lit
- 10 local digital inputs
- 10 - 32VDC supply
- Multi-pole connector
- Sealed to IP65
- HCT-CAN Inter-module communications
- -20 to +70°C operating Temp. Range
- Fully programmable using HCT Intella™ software



Expansion Module - DVC 22:

- HCT-CAN inter-module communications
- RS232 for set-up communications
- **40 x Sinking inputs**
- 10 - 32VDC supply with protection
- Diagnostic/Prognostic LED's
- Multi-pole, sealed connector
- Sealed to IP67/68 (NEMA 6/6P)
- Fully potted construction
- -40 to +85°C operating Temp. Range
- Fully programmable using HCT Intella™ software



J1939 Data Bridge - DVC 80:

- HCT-CAN Inter-module communications
- **J1939 to HCT-CAN translator**
- 10 - 32VDC supply with protection
- Multi-pole, sealed connector
- Sealed to IP67/68 (NEMA 6/6P)
- Fully potted construction
- -40 to +85°C operating Temp. Range
- Fully programmable using HCT Intella™ software



Expansion Module - DVC 41:

- HCT-CAN inter-module communications
- RS232 for set-up communications
- **12 x High Current Outputs**
- 10 - 32VDC supply with protection
- Diagnostic/Prognostic LED's
- Multi-pole, sealed connector
- Sealed to IP67/68 (NEMA 6/6P)
- Fully potted construction
- -40 to +85°C operating Temp. Range
- Fully programmable using HCT Intella™ software



Master Controller - DVC 7:

- HCT-CAN inter-module communications
- RS232 for set-up communications
- **CE compliant to latest standards**
- **3 x Digital inputs**
- **2 x Analog inputs**
- **3 x Universal inputs**
- **2 x PWM outputs**
- **6 x Digital outputs**
- 10 - 32VDC supply with protection
- Multi-pole, sealed connectors
- Fully potted construction
- -40 to +85°C operating Temp. Range



Expansion Module - DVC 50:

- HCT-CAN Inter-module communications
- **Universal I/O Configuration**
- 10 - 32VDC supply with protection
- Diagnostic/Prognostic LED's
- Multi-pole, sealed connector
- Sealed to IP67/68 (NEMA 6/6P)
- Fully potted construction
- -40 to +85°C operating Temp. Range
- Fully programmable using HCT Intella™ software



TekBook:

- Controller Set-up & Diagnostic tool
- Office or field use
- Windows 7™ **Home Premium OS**
- 10.1" non reflective color screen
- Order with any HCT software installed
- Wireless communications capable
- 160Gb Hard drive with 3x USB
- External VGA and 5-in-1 card reader feature
- Complete with installed and ready to go USB to serial converter
- Comes with charger and 999-10075 HCT programming cable
- Ideal for use with ALL HCT programmable controllers





- ❖ Mining & Exploration
- ❖ Agriculture
- ❖ Cranes & lifts
- ❖ Refuse & Recycling
- ❖ Construction
- ❖ Off-Road vehicles
- ❖ Forestry, Wood & Pulp
- ❖ Reclamation & Salvage
- ❖ Oil Field & Sands
- ❖ Demolition Equipment
- ❖ Cooling Solutions
- ❖ Military Apparatus
- ❖ Specialty Use
- ❖ Remote Control
- ❖ Power Generation
- ❖ Emission Controls
- ❖ Integrated Drivers
- ❖ Valve & Pump Controls



• ***HCT Product Sales and Support:***

For a full list of authorized distributors worldwide, please visit:

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To discuss anything in this brochure, order product, get price and delivery or book a training course, please contact our customer service department through E-mail at: info@hctcontrols.com

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