



Intella™ Software Suite -



- One time customer site license fee - NO per seat or per application charges.
- Powerful programming tool written and fully supported by HCT
- Compatible with ALL DVC master and expansion module products
- Programming environment similar to other object based languages
- Allows easy creation, change or modification to user DVC applications
- Simulation and diagnostic segments are part of the package
- User training classes and/or on-line manuals for self-teachers

Graphical 'Touch-Screens' -

- Two sizes available, 5.6" (D206) & 10.4" (D210)
- Bright screen for excellent readability
- Can operate in portrait or landscape mode.
- Multiple, programmable touch screen keys
- Harsh environment operation - NEMA-4 sealing
- User addressable speaker in the rear of the unit.
- Power Supply range of 10 to 26 VDC
- Battery-backed Real-Time Clock
- Object-Based Programming for seamless integration with the Intella™ Software



- ❖ Mining & Exploration
- ❖ Agriculture
- ❖ Cranes & lifts
- ❖ Refuse & Re-cycling
- ❖ 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



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High Country Tek, Inc.

Product Short Form

Electronic Controller Solutions for the Mobile, Industrial & Marine Fluid Power Industry

High Country Tek, Inc. (HCT)

Is the Fluid Power Industries premier Independent electro-hydraulic controls supplier with best in class products, service and training.

HCT provides the most 'Ruggedized' electronic control solutions for a wide variety of applications.

Our standard off-the-shelf products, all built in the U.S.A, include 'Specialty Controllers' that can solve dedicated application needs quickly and easily while the programmable and fully expandable 'DVC Series' system controllers that use the HCT patented Intella™ software, can be used in physically hostile environments that others cannot to create advanced solutions that offer unparalleled levels of programming freedom and control depth.



Standard HCT Product Features*:

- Operates with major OEM electro-hydraulic equipment
- Sealed and protected to >IP68 (NEMA 6P)
- Unique 'Solid' potting with flame retardant materials
- SAE-J1939 & HCT-CAN communication protocols
- Transient suppression for use on all mobile equipment
- SAE-J1455 for 'Load-dump' protection
- Patented Intella™ system configuration software for fast implementation of the DVC series
- Industry standard Deutsch, Cinch, Weatherpack or other customer defined connectors used
- Comprehensive on-line literature, manuals, user guides and application information

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* some products do not have all features listed



Valve and Pump Drivers - Easy manual adjustment



HAU & HAD:

- **General purpose**
- HAU - single output
- HAD - dual output
- Open Loop control
- Valve or Pump drive
- 11 to 30VDC supply

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



LCU:

- **General purpose**
- Low current driver
- Single output module
- 31mA to 250mA O/P
- Open Loop control
- 11 to 30VDC supply

- Variable 'Dither' signal
- Adjustable Ramp (s) 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
- PWM Valve / Pump driver
- 12 or 24VDC versions
- 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.
- DIN 43650 connector interface.
- Pre-wired with 10 feet color coded cable
- Fully sealed to NEMA 6P / IP 67



Valve and Pump Drivers - Easy PC adjustment

PowerLine - Multi Function Module:

- One controller, Multi-mode operation -
- ⇒ **Open loop valve or pump driver**
- ⇒ **Manual control through PC**
- ⇒ **Automotive style anti-stall**
- ⇒ **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

Fan System Controllers - Easy PC adjustment

Fan System Controllers - Easy manual 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



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



HFS 4:

- Uni-direction fan drive
- PWM signal from Engine ECU
- Bulkhead mounting version
- 10 to 32VDC supply voltage
- Die-cast aluminum housing
- Pre-wired for easy installation

Fan System Controllers - Easy PC adjustment

Generator Controller

PC to Module Interface



HFS-J:

- Bi-direction fan drive
- SAE-J1939 temp. data
- Local LED Diagnostics
- CE compliant
- PC set-up GUI available



HFS-J2:

- Dual, Bi-direction fan drives
- Multi-option system configuration
- SAE-J1939 temp. data
- Local LED Diagnostics
- CE compliant
- PC set-up GUI available



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



Opto3000:

- Upgraded technology unit
- Replaces Opto2000
- USB compatible
- USB powered
- Supplied with cables



DVC Series Products

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.highcountrytek.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



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



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



Expansion Module - DVC 50:

- HCT-CAN Inter-module communications
- RS232 for set-up communications
- **CE compliant to latest standards**
- **4 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
- 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



Memory Expansion Module - DVC 70:

- HCT-CAN Inter-module communications
- **5Mb expansion capability**
- 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



Master Controller LITE - DVC 7:

- HCT-CAN inter-module communications
- RS232 for set-up communications
- **CE compliant to latest standards**
- **4 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

