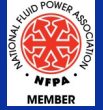




High Country Tek, Inc.

Dual Output Proportional Controller: **HAD**

Electronic Control Solutions for the Global Fluid Power Industry



Application Information:

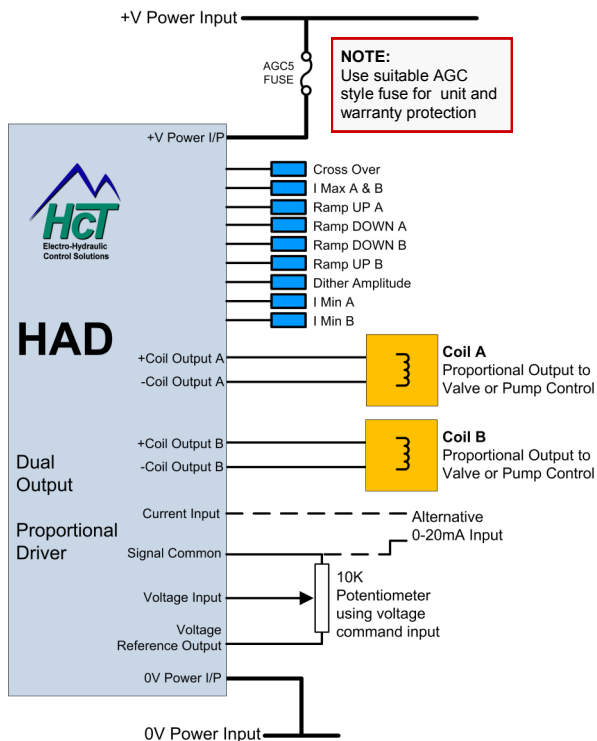
- Open Loop valve driver for 12VDC or 24VDC systems
- DUAL coil valve or pump stroker control systems
- Mobile or Industrial command signals accepted

Product Feature Overview:

- **Compatible with all major hydraulic manufacturers products**
- Analog controller, NO PC or programming needed to set-up
- Solid flame resistant 'Potted' product - environmentally hardened
- Multiple options for current ranges, up to 5A to get best control.
- Connector options to suit environment of application
- Mount directly to bulkhead or where needed



Electrical Connection Diagram:



Controller Specification Overview:

Housing Type:-	HCT 'encapsulated' block.
Input Supply Voltage:	11 – 30VDC (Absolute Maximum)
Input Supply Current:	Valve Current Setting + 200mA Quiescent (Max)
Command Input Type(s):	Voltage (VDC) OR current (mA)
Command Input Value(s):	0 to +5V, 0 to +10V or 0 to 20mA
Proportional Output:	2 x PWM up to 5A max current
Dither Frequency :	~30 to 200Hz (Factory Pre-Set Only)
Dither Amplitude:	~0 to 100% (adjustable)
Ramp times Up/Dwn:	Min = ~50mS Max = ~ 10Seconds
Housing Material:-	Black, Polycarbonate
Wire Connections:-	10 way screw terminal block with Weatherpack connectors - 'Q' option
Connector type:-	Screw terminals (standard)
Encapsulation:-	Flameproof epoxy resin
Mounting:-	3 x No. 8 (4.5mm) screws .
Temperature range:-	-20 to +60°C (operational)
IP Rating:	IP67 / 69K (Module only) derate for connector as required.



Dual Output Proportional Controller - HAD

Controller Options:

Dimensional Data:

H A D E T F 1 4 0 -

Max. Current Range:

W = 0mA to 63mA
X = 0mA to 125mA
Y = 0mA to 250mA
Z = 0mA to 500mA
E = 0mA to 1A
K = 0A to 1.7A
G = 0A to 3A
M = 0 to 5A

Ramp Select:

S = Single pot. adjustment for ALL ramps
C = Individual adjustment pot per coil
T = Individual adjustment pot per direction
R = Individual adjustment pot per coil per direction

Dither Frequency Pre-set by factory:

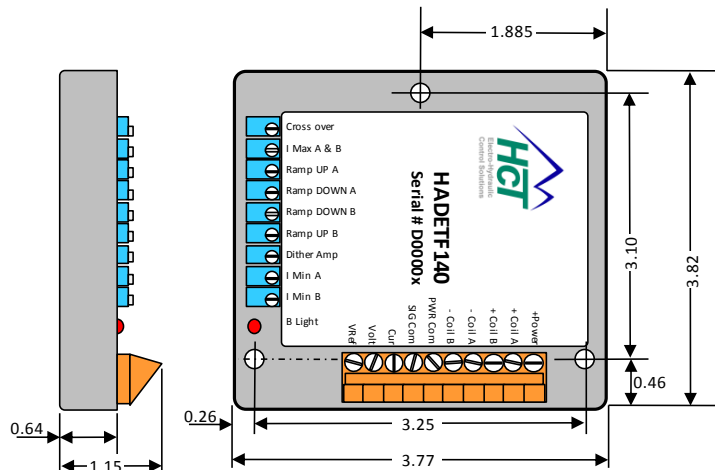
Fxxx = Pre-set to user chosen dither frequency xxxHz

Frequency is in Hertz, use all three digits with leading 0 if required: i.e. 050 for 50Hz or 152 for 152Hz

NOTE: If NO dither frequency is specified, the default is 140Hz

Connector Type:

NO Letter (i.e. Blank) = Standard screw type terminal block
Q = WeatherPack option - 6 way tower and 4 way shroud on 6 inch cables will be provided.



Notes:

- All dimensions in inches
- Unit weight is approx. 350 grams
- Mounting is via 3 x No. 8 holes (4.5mm) on to flat surface
- Unit shown with ALL potentiometers possible
- ALL potentiometers are 10 turn variety with end 'clutch'
- ALL potentiometers adjust 'CLOCKWISE' to increase function
- Not to scale, please contact HCT for exact dimensions

Diagnostic Indicators:

B Light –This led illuminates when the 'B' coil is being driven by the controller

Need More Information ?

For price, delivery and to discuss further options that can help you promote your company while growing and capturing sales, please contact our customer service department or e-Mail us at: info@hctcontrols.com



www.hctcontrols.com



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