



High Country Tek, Inc.

# Single Output Proportional Controller - HAU

Electro-Hydraulic Solutions for Mobile, Industrial & Marine Applications.

## Application Information:

- **Open Loop valve driver module**
- 12VDC or 24VDC system usage
- **Single valve or pump stroker control systems**
- Remote Pressure or Flow valve control
- Direct connection to joystick or potentiometer
- Great for power units or smaller systems

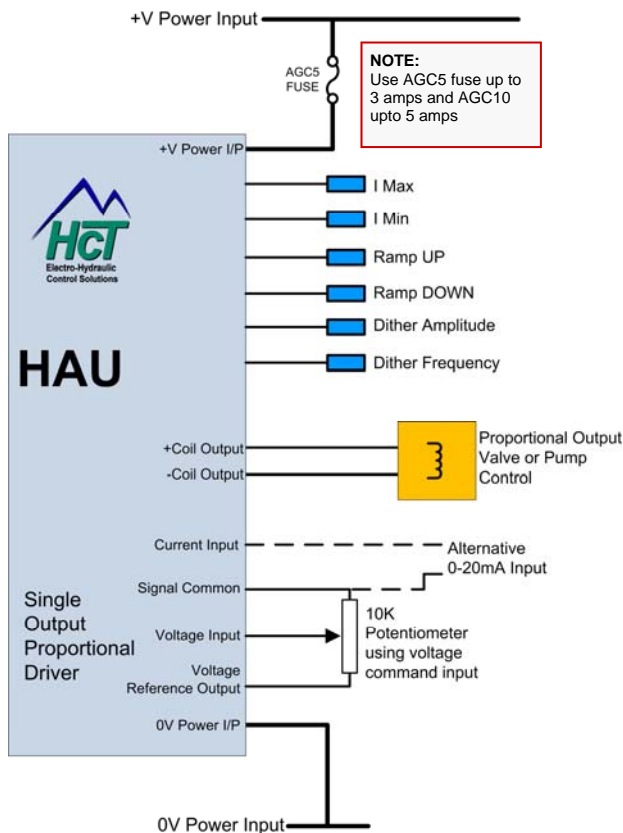
## Product Feature Overview:

- **Compatible with all major hydraulic manufacturers products**
- Analog controller for fast integration into any application
- **NO** PC or programming needed to set-up
- Simple, quick adjustments to get working
- Solid flame resistant 'Potted' product - very physically robust
- Multiple options for current ranges, up to 5A to get best control.
- Connector options to suit environment of application
- Diagnostic LED indicators
- Mount directly to bulkhead or where needed
- Can be factory pre-set for serial production needs



**HAU: Single output analog driver**

## Electrical Connection Diagram:



## Controller Specification Overview:

<b>Housing Type:-</b>	HCT unique 'encapsulated' block.
<b>Input Supply Voltage:</b>	11 – 30VDC ( Absolute Maximum )
<b>Input Supply Current:</b>	Valve Current Setting + 200mA Quiescent (Max)
<b>Command Input Type(s):</b>	Voltage OR current
<b>Command Input Value(s):</b>	0 to +5V, 0 to +10V or 0 to 20mA
<b>Proportional Output:</b>	1 x PWM up to 5A max current ( Sinking )
<b>Dither Frequency :</b>	~30 to 200Hz
<b>Dither Amplitude:</b>	~0 to 100%
<b>Housing Material:-</b>	Black, Polycarbonate
<b>Wire Connections:-</b>	8 way Terminal block with Weatherpack connectors as 'Q' option
<b>Connector type:-</b>	Screw terminals ( standard )
<b>Encapsulation:-</b>	Flameproof epoxy resin
<b>Mounting:-</b>	3 x No. 8 ( 4.5mm ) screws .
<b>Temperature range:-</b>	-20 to +60°C ( operational )
<b>NEMA/IP Rating:</b> ( Module only )	NEMA 6P/68 derate for connector as required.



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## Ordering Guide:

To make certain we offer you the best product for your application, please contact our sales and customer support department at **High Country Tek, Inc.** in California to discuss your project. Due to time zones, we recommend you use the E-mail address to guarantee a timely response or if you prefer, use the office numbers given below.

## Controller Options:

**H A U K S F 2 0 0 -**

### Max. Current Range:

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 up & down  
R = Individual adjustments for up & down

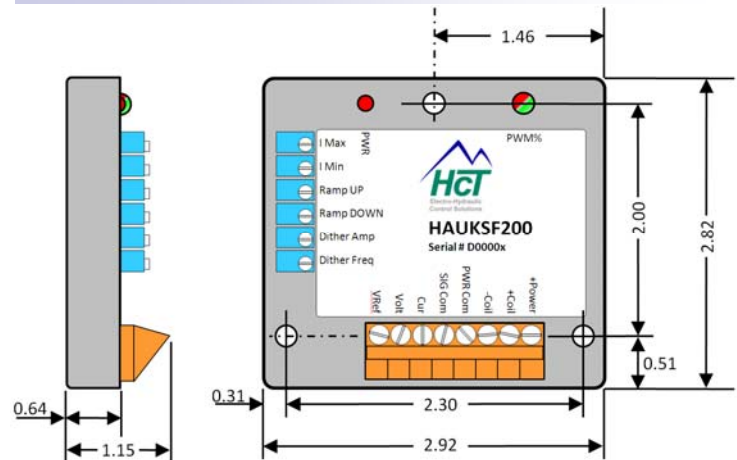
### Dither Frequency Pre-set by factory:

N = NO dither Pre-set / added  
Fxxx = Pre-set to dither frequency xxxHz  
xxx frequency is in Hertz, use all three digits with leading 0 if required -  
i.e. 000 for none set, 050 for 50Hz or 152 for 152Hz

### Connector Type:

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

## Dimensional Data:



### 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:

**PWR LED** - Lights when the power supply is above 10.5VDC, the unit WILL NOT FUNCTION correctly if the LED is OFF or BLINKING.

**PWM%** - This indicates the how much the output is driving the coil, RED ( full OFF ) to GREEN ( full ON ). The ratio of red to green indicates the duty cycle of the PWM output and can be used as a visual or troubleshooting aid.

## Need More Information ?

For the latest company and product information, visit us at [www.highcountrytek.com](http://www.highcountrytek.com) or for customer service, pricing, order placement and application support, contact us through E-mail at [info@highcountrytek.com](mailto:info@highcountrytek.com)



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