

High Country Tek, Inc.

Single Output Proportional Controller: HAU



Electronic Control Solutions for the Global Fluid Power Industry

Application Information:

- Valve coil driver module single PWM output
- One module for 12VDC or 24VDC coils/systems
- Pressure or Flow control valves
- Direct connection to joystick, potentiometer or remote command

Product Feature Overview:

- Compatible with all major hydraulic manufacturers products
- Potentiometer adjustments for simple, quick optimization
- NO software or special tools / skills needed to set-up
- Multiple options for current ranges, up to 5Amps
- Connector options to suit environment of application
- Diagnostic LED indicators
- Mount directly to bulkhead / manifold or where needed



Electrical Connection Diagram:

+V Power Input Use AGC5 fuse up to 3 amps and AGC10 upto 5 amps Ramp UP Ramp DOWN Dither Amplitude HAU Proportional Output +Coil Outpi Valve or Pump -Coil Outpu Current Input Alternative 0-20mA Input Signal Common Single 10K Output Voltage Input Potentiometer Proportional using voltage Driver Voltage command input Reference Outpu 0V Power I/P **0V Power Input**

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 **User Voltage:** 5V @ 5mA max (1KOhm limiter) **Proportional Output:** 1x PWM up to 5A max current **Dither Frequency:** ~30 to 200Hz (adjustable) **Dither Amplitude:** ~0 to 100% (adjustable) **Housing Material:-**Black, Polycarbonate potting case

Wire Connections:-

Weatherpack connectors as 'Q' option

8 way Terminal block with

Connector type:-Screw terminals (standard)

Flameproof, 2 part epoxy resin - black **Encapsulation:-**

Mounting:-3 x No. 8 (4.5mm) screws. Temperature range:--20 to +60°C (operational)

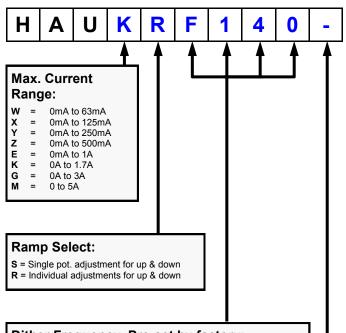
IP Rating: IP67 / 69K (Module only)

derate for connector as required.



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Controller Options:



Dither Frequency Pre-set by factory:

Nxxx = Pre-set - NO dither frequency adjust potentiometer installed Fxxx = Pre-set to user chosen dither frequency with dither adjustment

Frequency is in Hertz, use all three digits with leading 0 if required: i.e. 050 for 50Hz or 140 for 140Hz

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

Connector Type:

NO Letter (i.e. Blank) = Standard screw type terminal block

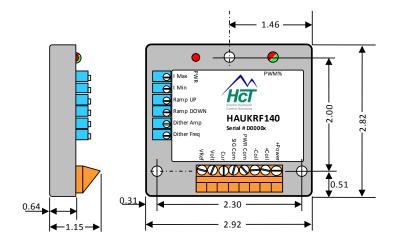
Q = WeatherPack option - 4 way tower and 4 way shroud on 6 inch cables will be provided.

'Q' Option Mating Accessories:

P/n: 999-10169 - Connector kit - 4-pin tower & 4-pin shroud (assembly required)
P/n: 999-10225 - Pre-assembled Harness with 3-Meter flying leads, automotive

grade wire and 4-pin tower & 4-pin shroud connectors

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 of 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 customer service, pricing, order placement and application support, contact us through E-mail at:

www.hctcontrols.com





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