



High Country Tek, Inc.

Hydraulic Generator Controller - HGC-2

Electronic Controller Solutions for Mobile, Industrial & Marine Applications.

Application Information:

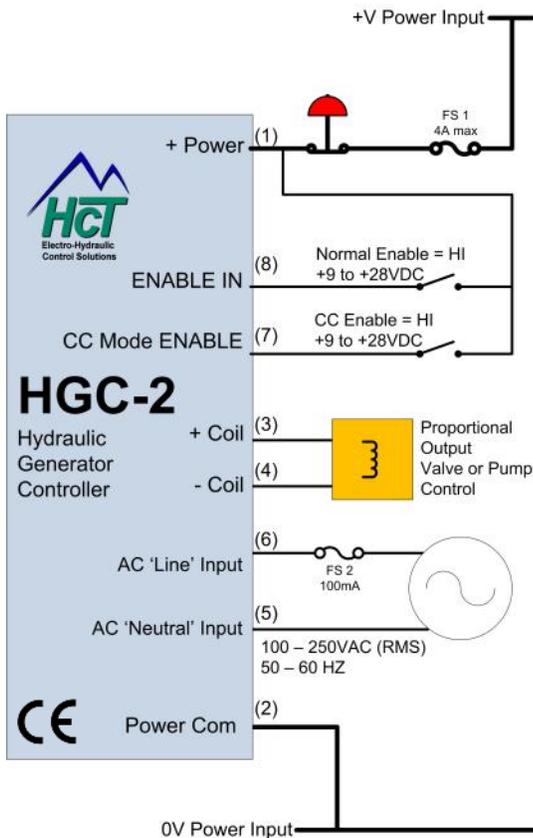
- **Intended for use with Hydraulically driven A.C. voltage generator sets**
- Direct connection to output for 110 to 240VAC feedback signal
- Selectable 50 or 60Hz generator operation (European compatibility)
- Set-up via PC to protect OEM setting values from tampering
- Suitable for all retro-fit, re-power, new and OEM applications

Product Feature Overview:

- Pre-written Windows™ software application, ready for user values
- 1 x PWM output for any make of proportional valve or pump control
- Multiple output current ranges available for best control resolution
- LED diagnostics - error flash code for reduced maintenance
- Heavy duty, Deutsch 8 way DT06 male connector
- Fully encapsulated and sealed to >IP67 / NEMA 6 in flame resistant resin
- Designed to meet CE latest test standards



Electrical Connection Diagrams:



Controller Specification Overview:

Housing Type:-	HCT unique 'encapsulated' block.
Input Supply Voltage:	9 – 28VDC (Absolute Maximum)
Input Supply Current:	Valve Current Setting + 50mA Quiescent (Max)
Feedback Voltage:-	100 to 250VRMS
Feedback Frequency:-	50 or 60Hz with +/-3Hz adjustment
O/P Current Ranges:-	600mA, 1.2A or 2.5A
Dither Frequency :	Software adjustable, ~50Hz to ~1KHz
Housing Material:-	ABS, black
Wire Connections:-	8 pin Deutsch - DTS06 - Male
Encapsulation:-	Flameproof epoxy resin
Mounting:-	2 x No. 6 (4mm) screws
Temperature range:-	-20 to +80 °C (operational)
NEMA/IP Rating:	NEMA PW12 / IP69K
Operating System:	Windows® XP Professional / Vista Business and Ultimate Compatible
Unit Settings:	All by PC user interface
User PC interface P/No:-	023-00228
USB Communications:	Optical link - Infra-red for safety
Interface Cable P/No:-	999-10166



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Optical Link and User Interface:

The **High Country Tek Inc. - HGC-2**, uses an isolated and safe Infra-Red communications link cable for set-up and test. The cable connects to the users PC USB port and is compatible with Windows® XP Professional / Vista Business and Ultimate operating systems. Once physically attached, the user simply starts the Graphical User Interface and enters the appropriate values for the system such as frequency required from the generator set and valve parameters.

Please visit our website or request a full data sheet for set-up and test information.

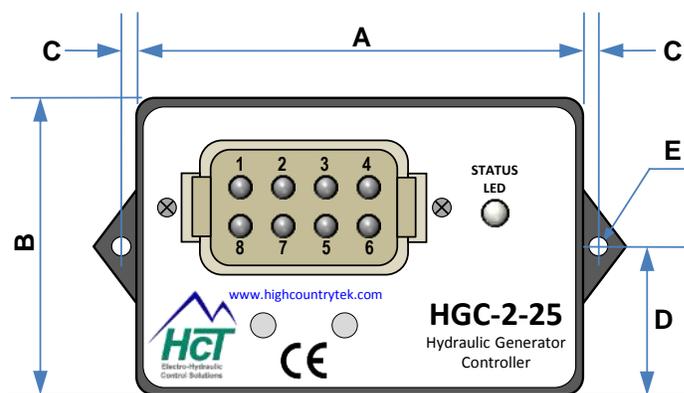
Connector Data:

Terminal	Function
1	+Vin Supply (9 to 28VDC)
2	0V Supply (Common)
3	Proportional Coil + Output
4	Proportional Coil - Output
5	Feedback I/P - AC Neutral
6	Feedback I/P - AC Line
7	Enable - HGC **CC Mode
8	Enable - HGC Normal Mode

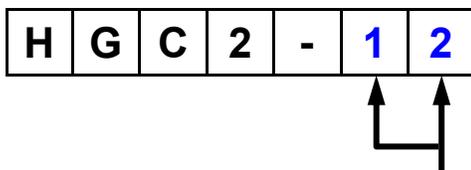
****CC = Constant current mode:**
Used for initial controller set-up or where AC feedback may be overly distorted by operation in an electrically noisy environment. See full data sheet for explanation of use.

Mating Connector:
Deutsch DT06 - Female
Connector Kit: 999-10073
1 x connector wedge
1 x connector plug
10 x pins-(socket)

Dimensional Data:



Controller Options:



Output Current Range:

06	-	600mA current range
12	-	1200mA current range
25	-	2500mA current range

Note:

The current range chosen represents the maximum current available at the controller output

Need More Information ?

For the latest company and product information customer service, pricing, order placement and application support, contact us through E-mail at: info@hctcontrols.com

www.hctcontrols.com



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