

High Country Tek, Inc.

Single Channel PWM Controller - PTD-24-V

Electronic Controller Solutions for Mobile, Industrial & Marine Applications.

Application Information:

- 24V @ 1.5amp General purpose open loop single coil valve driver
- Uni directional open loop pump stroker or valve controller
- DIN 43650 footprint for mobile or industrial products
- Accepts industry standard 0 10V command signal

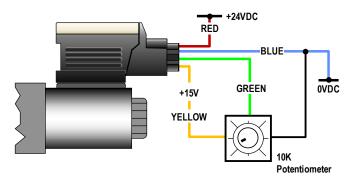
Product Feature Overview:

- Single PWM output for any make of proportional valve or pump control
- Linear Input to output curve to give best control resolution
- ALL settings by potentiometer under unit translucent lid
- Separate ramp UP and Down adjustments for smooth control
- Pre-connected 3m/10 foot color coded cable for easy connections
- LED diagnostics show full controller operation at all times
- Meets latest CE latest test standards & Sealed to meet NEMA 6P or IP 67

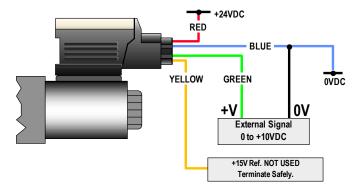


Electrical Connection Diagrams:

Internal +15VDC reference can be used to power local 10 K Ω potentiometer or joystick for easy installation.



Ensure external signal source 0V is connected to same GND at this



Controller Specification Overview:

Housing Type:- HCT unique 'encapsulated' block.

Input Supply Voltage: 24VDC ±20% (Absolute Maximum)

Input Supply Current: Valve Current Setting + 200mA

Quiescent (Max)

Output Current: 1.5 amps typical (36W max)

Command Input Type: Voltage only

Command Input Value: 0 to +Vref or external Industry

standard 0 - 10VDC max

User reference: Vref = +15VDC ($\pm 5\%$) @ 5mA max

Ramp Times: 300mS to ~8 Secs (with I max at 100%)

Separate UP and Down settings

Dither Frequency: Adjustable, ~100 to ~250Hz (± 20%)

Housing Material: High Impact resistance ABS.

Wire Connections:- 3M/10' pre-connected color coded cable

Encapsulation:- Flameproof epoxy resin filled

Mounting:- DIN 43650 connector footprint

Temperature range:- -20 to +70 °C (operational)

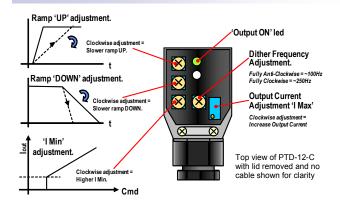
NEMA/IP Rating: NEMA 6 / IP65 when assembled and

mounted to coil correctly



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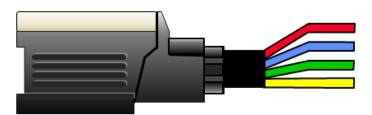
Adjustment Guide:



Connection Details:

Controller comes pre-wired with 3Meters / 10 feet of color coded cable that is selected for harsh environments and meets:

4 core, 16/02 with PVC outer protection to Def Standard 16-12 Part 5 (Screened) 2.5 Amps/core @ 70°C Max Operating Temp.



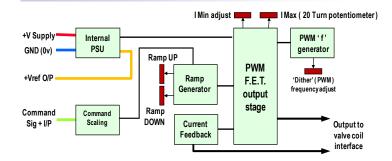
RED - +V Supply Input

BLUE - GND (0V) Supply Input
GREEN - Voltage Command Input
YELLOW - +15VDC Reference Out-

IMPORTANT NOTE:

DO NOT SHORT +15V REF. TO +24V OR GND (0V) AS PERMANENT DAMAGE TO AN INTERNAL VOLTAGE REGULATOR WILL RESULT!!

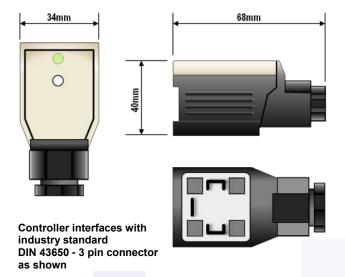
Block Diagram:



- IMax potentiometer is 20 turn with end travel clutch
- All other potentiometers are single turn variety adjust with care
- ALL potentiometers are clockwise to increase respective value
- Unit is fully encapsulated in flame resistant black epoxy resin
- Controller M3 x 40 mounting screw and gasket supplied

Dimensional Data:

Pre-wired cable removed for clarity



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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