

High Country Tek, Inc. Single Channel PWM Controller - PTD-24-C

Electronic Controller Solutions for Mobile, Industrial & Marine Applications.

Application Information:

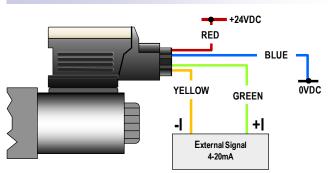
- 24V @ 1.5amp General purpose open loop single coil valve driver
- Uni directional open loop pump stroker or valve controller
- DIN 43650 footprint for mobile or industrial products
- Accepts noise resilient 4-20mA analog command signal

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

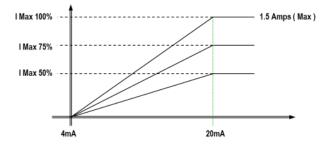


Electrical Connection Diagrams:



NOTES:

- Yellow wire (-ImA) is internally connected to GND(0v) supply 1)
- 4-20mA command is connected between +I and -I 2)



Controller Specification Overview:

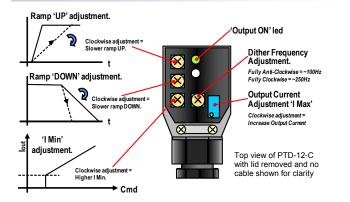
Housing Type:-	HCT unique 'encapsulated' block.
Input Supply Voltage:	12VDC ±20% (Absolute Maximum)
Input Supply Current:	Valve Current Setting + 200mA Quiescent (Max)
Output Current:	1.5 amps typical (36W max)
Command Input Type:	Current only
Command Input Value:	Industry standard 4 - 20mA (4mA = off, 20mA = max O/P set by IMax pot.)
Ramp Times:	300mS to ~8 Secs (with I max at 100%)
	Separate UP and Down settings
Dither Frequency :	Adjustable, ~100 to ~250Hz (\pm 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

Adjust Imax to achieve desired current output for full scale input command



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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 -BLUE -GREEN -YELLOW -
- +V Supply Input GND (0V) Supply Input
- N +ImA Current Input
- OW -ImA Current Input

NOTE:

-ImA current input is INTERNALLY connected to GND (0v) supply input and is NOT isolated.

Need More Information ?

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

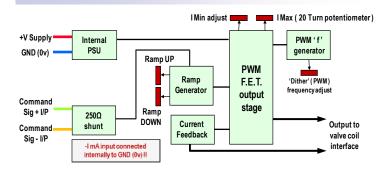
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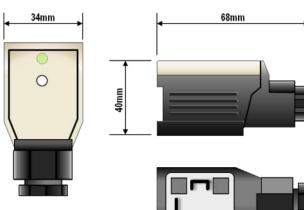
Block Diagram:



- 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



Controller interfaces with industry standard DIN 43650 - 3 pin connector as shown



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