PWM MICRO PROPORTIONAL VALVE DRIVER

3.00"
[76,2]

Ø .250" MOUNTING HOLE
[6,4]

YELLOW OUTPUT INDICATOR LED

2.00"
[50,8]

1.00"
[25,4]

RAMP UP
RAMP DN
I. MAX.
I MIN.
DITH AMP
DITH FRQ

Command Controls Corp. P/N XXXXXX

1=CUR
2=VOLT
3=REF
4=PWR
5=PWR +
6=COIL
7=COIL +

10K POT

MAX

MIN

DC power supply

Proportional valve coil

2.00"
[50,9]

RED POWER INDICATOR LED

.500"
[12,7]

.740"
[18,7]

PWM-1400-12........... for use with 12 V.D.C.

PWM-1400-24........... for use with 24 V.D.C.

BUCHER
hydraulics
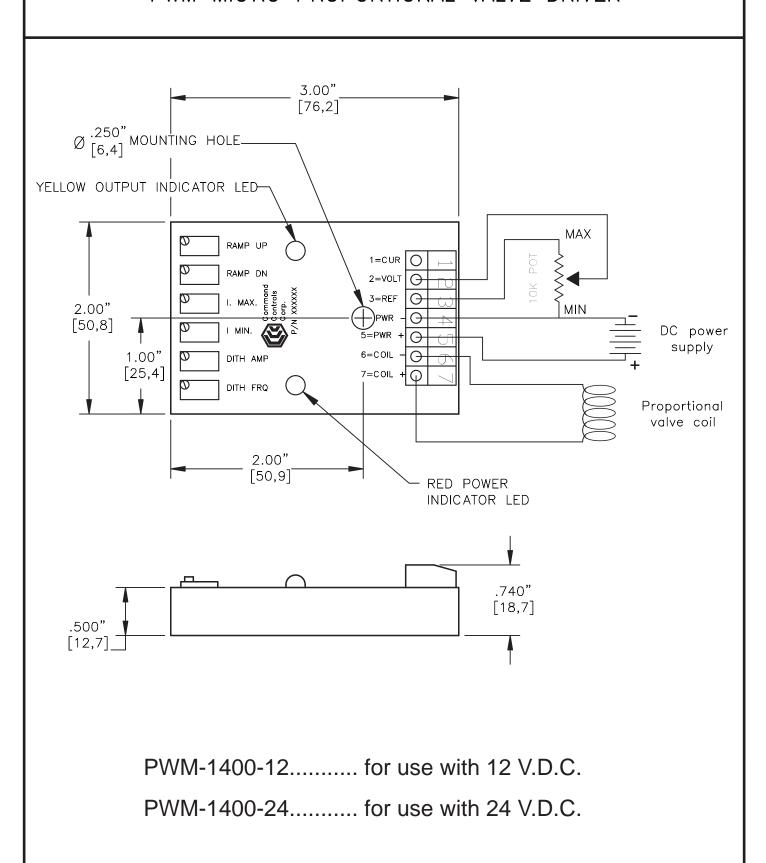
PWM MICRO PROPORTIONAL VALVE DRIVER

DESCRIPTION:

The Block Micro Proportional Driver is a electrical circuit built into an epoxy potted enclosure designed to proportionally control the flow of our solenoid valves.

The BMPD provides a Ø0.25 [6,4] mounting hole that is built in the body. Assembly of the unit is accomplished by connecting stranded or solid #10 AWG [Ø3,0] wire, up to to the miniature header that is provided on the top surface of the block.
Adjustments made to the unit are made by turning the adjustment screws located on the top surface of the block. The block also includes a red power indicator LED and a variable intensity yellow LED, to indicate output level, for onboard diagnostics.

TECHNICAL DATA:

PARAMETER	ALL VERSIONS
SUPPLY VOLTAGE	9.0 V DC min. −32 VDC max.
SUPPLY CURRENT	45 mA max. (no load)
INPUT CONTROL SIGNAL VOLTAGE OR CURRENT	0 − 5 VDC (300 K ohm impedance) 0−20 mA (100 ohm impedance)
RAMPING UP/DOWN TIME	0.1 − 20 sec. linear (+/− 0.1%/°C)
PWM FREQUENCY	1.2 KHz fixed
OUTPUT LEAP TO I MIN	@ 0.1 V or 0.4 mA control (+/− 15%)
DITHERING FREQUENCY	30 − 150 Hz
DITHERING AMPLITUDE	0 − 500 mA peak to peak
VOLTAGE REFERENCE	5.0V +/− 5% regulated
OPERATING TEMP.	−25 to 85 °C

PARAMETER	PWM−1400−12	PWM−1400−24
OUTPUT CURRENT @ 25 °C Ta		
CONTINUOUS	3.0 Amps max.	1.5 Amps max.
PEAK PULSED (16ms)	17.0A max.	4.7A max.
I MIN. (+/− 20%)	0 − 1.0A max.	0 − 0.5A max.
I MAX. (+/− 20%)	Imin. + 2.0A max.	Imin. + 1.0A max.
REGULATION DV	+/− 0.2% / V	
REGULATION DT	+/− 0.1% / °C	