

DM3801

DC INPUT PROPORTIONAL VALVE DRIVER PULSE WIDTH MODULATED OUTPUT

FEATURES

- Choice of ±10 VDC or 4/20 mADC Inputs
- Provides a Bipolar Current Drive for a Current Controlled Valve
- · User Write-On Label
- Unpluggable Terminal Blocks
- Standard DIN-Rail Mount with Easy Snap-On Snap-Off
- Connections Readily Accessible from the Front
- · Permanent Warranty

DESCRIPTION

The DM3801 valve driver provides a bipolar current drive to a current controlled valve.

The unit uses a pulse-width modulated square wave output that switches at a high frequency. The duty cycle of the output wave changes to create an average DC current through the valve magnet winding.

The DM3801 valve driver is housed in an aluminum DIN rail mountable case with a stainless steel mounting plate and plastic front panel.

Connections are made via two 4-pin plug-in terminal blocks. These terminal blocks allow the product to be removed without disconnecting the wires.

TYPICAL APPLICATIONS

Hydraulic proportional valve driver.

SPECIFICATIONS

INPUT

4/20 mADC (62 ohm internal shunt) -10/10 VDC (>500 Kilohms impedance)

SPAN ADJUSTMENT

±15% of span

ZERO ADJUSTMENT

±15% of span

OUTPUT

-35/35 mADC to -100/100 mADC

ACCURACY

±0.1% of span

INPUT TO OUTPUT LINEARITY

±0.02% of Span

STEP RESPONSE TIME

Inductive load dependant <10 ms (typical)

OUTPUT RIPPLE (Peak-to-Peak)

0.1% of Span

COMMON MODE REJECTION

>100 dB, DC to 60 Hz

OPERATING TEMPERATURE

14 to 140 °F/-10 to 60 °C

TEMPERATURE STABILITY

±(0.02% of span) /°C

POWER

115 VAC ±10% 50/60 Hz 2.5W max

Optional

24 VDC (21 to 32 VDC)

ORDERING INFORMATION

POWER

☐ 115 VAC, 50/60 Hz Power

INPUT

- ☐ -10/10 VDC
- ☐ 4/20 mADC

OUTPUT

Select Units

- ☐ 35/60mADC
- ☐ 60/100 mADC

Enter Output

Zero Scale

Full Scale

OPTIONS

Conformal Coating

TAGS

Specify Tag Numbers

Tag Number is typed on product label at no charge.

Enter Tag Number(s)

ACCESSORIES

DM3801

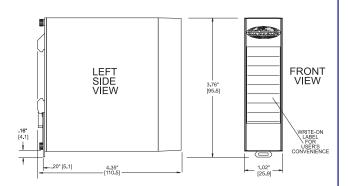
DR1

DIN-Rail, 35 mm Symmetrical, 39 inches (1 meter)

QTY ____

DIMENSIONS

Inches [mm]



CONNECTIONS

Input + -10/+10 V + Input --10/+10 V -Input + 4/20 mA +Input -4/20 mA -Output + Output + Output -Output -L1 Power AC L1 L2 Power AC L2

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