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Find the *Dwyer Instruments / Love Controls Iso Verter II* at our website: *Click HERE*

Iso Verter® II
Model 4380
Installation Instructions

Getting Started
Mount the socket and wire per instructions on below (Figure 2).

Refer to the exploded diagram in Figure 1. Carefully remove the four screws from the bottom of the plug end. Slide the cover off.

Program for desired input following instructions on page 2.

Program for desired output following instructions on page 3.

Refer to the exploded diagram in Figure 1. Carefully replace the cover and re-install the four screws to secure the cover to the base. Screws should be tightened to a snug fit (6 in-lb torque max.).

Calibrate the unit using the procedure on page 4.

WARNING: Do not attempt to operate or calibrate this device with the cover removed. Potentially lethal voltage is present on some of the internal components. Make sure that the cover is firmly in place before plugging into the socket.

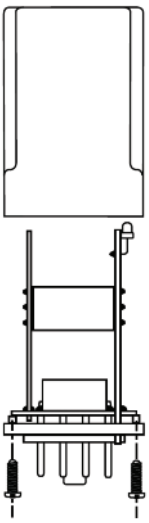


Figure 1: Remove cover to access program switches

Wiring
Wire the mounting socket as shown in the drawing shown in Figure 2.

For DIRECT ACTING inputs wire the positive lead to terminal five and the negative lead to terminal six (as shown).

For REVERSE ACTING inputs wire the positive input lead to terminal six and the negative lead to terminal five.

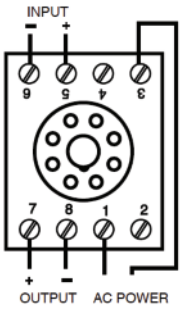


Figure 2: Wiring socket

LOVE CONTROLS DIVISION
DWYER INSTRUMENTS, INC.
P.O. BOX 373 • MICHIGAN CITY,
INDIANA 46360, U.S.A.

Phone: 219/879-8000
www.love-controls.com
Fax: 219/872-9057
e-mail: lit@dwyer-inst.com

Input Programming
The input selection and ranging is performed through two switch banks. Refer to the instructions below and the illustration in Figure 3 for details.

MODE SELECT SWITCH BANK
1. For CURRENT INPUT turn switch one ON.
   For VOLTAGE INPUT turn switch one OFF.
2. For UNI-POLAR INPUT (low end of scale ≥ zero) turn switch two ON and turn switch three OFF.
3. For BI-POLAR INPUT (low end of scale < zero) turn switch two OFF and turn switch three ON.
4. For ZERO BASED INPUT (eg. 0 to 20 mA) turn switch four ON and turn switch five OFF.
5. For ZERO SUPPRESSION (eg. 4 to 20 mA) turn switch four OFF and turn switch five ON.
6. For DIRECT ACTING INPUT turn switch six OFF.
7. For REVERSE ACTING INPUT turn switch six ON and reverse input wiring.

RANGE SELECT SWITCH BANK
Turn ON the switch for the scale desired. All other switches should be OFF. If BI-POLAR INPUT is selected, the scale will be MINUS-SELECTION to PLUS-SELECTION (eg. -10 TO ±10 VDC).

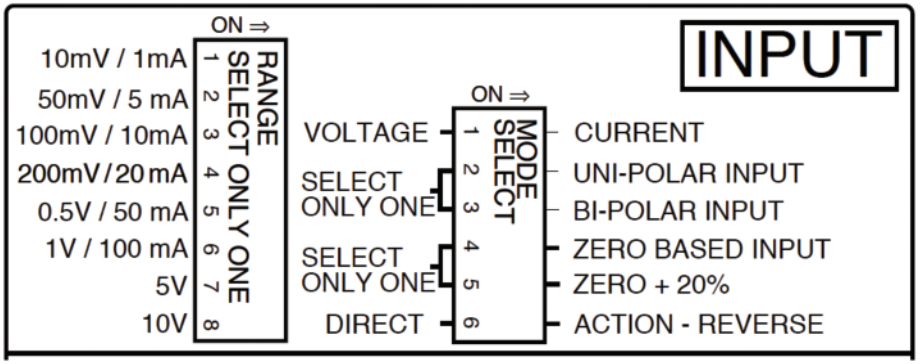


Figure 3: Input selection and range switches

WARNING: Do not attempt to operate or calibrate this device with the cover removed. Potentially lethal voltage is present on some of the internal components. Make sure that the cover is firmly in place before plugging into the socket.

Output Programming
The output selection and ranging is performed through two switch banks. Refer to the instructions below and the illustration in Figure 4 for details.

MODE SELECT SWITCH BANK
1. For VOLTAGE OUTPUT turn switches one and two ON and turn switch three OFF.
2. For CURRENT OUTPUT turn switches one and two OFF and turn switch three ON.
3. For UNIPOLAR OUTPUT turn switch four ON and turn switch five OFF.
4. For BIPOLAR OUTPUT turn switch four OFF and turn switch five ON.
5. For ZERO BASED OUTPUT (eg. 0 to 20 mA) turn switch six ON and turn switch seven OFF.
6. For ZERO SUPPRESSION (eg. 4 to 20 mA) turn switch six OFF and turn switch seven ON. If BIPOLAR or REVERSE ACTION is selected, do not use the ZERO SUPPRESSION switch. Use the ZERO adjustment to suppress the output.
7. Switch eight is always OFF. (It is not connected to any circuitry. If switch eight is turned ON there is no effect on the operation of the device).

RANGE SELECT SWITCH BANK
Turn ON the switch for the scale desired. All other switches should be OFF. If BI-POLAR INPUT is selected, the scale will be MINUS-SELECTION to PLUS-SELECTION (eg. -10 TO ±10 VDC).

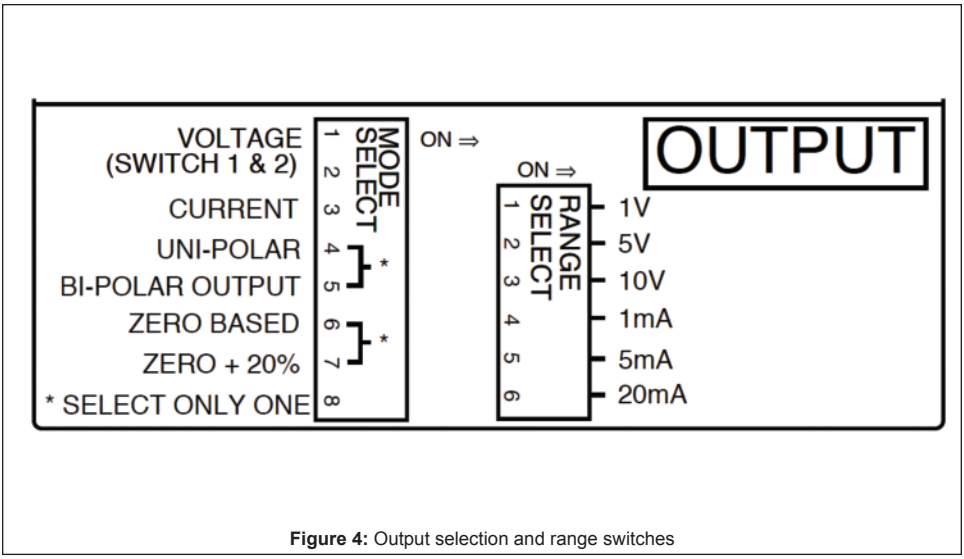


Figure 4: Output selection and range switches

WARNING: Do not attempt to operate or calibrate this device with the cover removed. Potentially lethal voltage is present on some of the internal components. Make sure that the cover is firmly in place before plugging into the socket.

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Calibration

1. Apply the appropriate input for the low end of the scale.
2. Adjust the ZERO screw for the desired low end output (4mA for example).
3. Apply the appropriate input for the high end of the scale.
4. Adjust the SPAN screw for the desired high end output (20mA for example).
5. Repeat as necessary.

Note: Instrument is factory calibrated for 4 to 20 mA Uni-Polar Direct-Acting Input and 4 to 20 mA Uni-Polar Output. Any change from this default condition may require field re-calibration to ensure accuracy of zero and span adjustments.

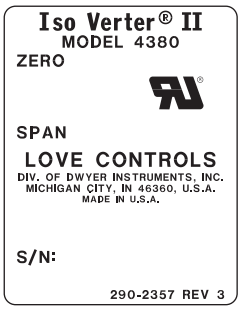


Figure 5: Calibration adjustment location

Specifications

Power Supply: 85 to 265 VDC/VAC, 50 to 400 Hz.
Isolation: 1500 VAC.
Ambient Temperature Range (Operating): 0 to 50°C (32 to 131°F).
Linearity: 0.1%.
Drift: ±0.02% per °C typical, ±0.05% maximum.
Maximum Current Output Load: 600 ohms.
Maximum Voltage Output Load: 20 mA (500 ohms).
Input Impedence – Current: 10 ohms.
Input Impedence – Voltage: 1 Megohm.

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LOVE CONTROLS DIVISION
DWYER INSTRUMENTS, INC.
P.O. BOX 373 • MICHIGAN CITY,
INDIANA 46360, U.S.A.

Phone: 219/879-8000
www.love-controls.com
Fax: 219/872-9057
e-mail: lit@dwyer-inst.com

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