

4. Gauge Installation



- Transducer tube may be installed in any orientation. However, if condensation is likely to occur, then port should be orientated downward.
- When installing 1/8" NPT style transducer tube, use the 7/16" wrench flats as shown.
- Attach cable.
- With the vacuum chamber at atmosphere, turn on the power supply (typically +24 VDC). Gauge is now reading pressure. The pressure in Torr as read by channel 1 is given by, $P = 100 \times V$ where V is the voltage between pins 5 and 6.
- For best accuracy, the gauge should now be zeroed. Pump the vacuum system down to low (10^{-6} Torr) pressure if possible. Ideally the gauge should be operated in this condition for one hour.
- Place the HPM-2002-OBE in the "CAL" mode by using the "SELECT" button. Using a small flat head screwdriver, rotate the "ADJUST" rotary encoder until the unit flashes between "0.0" and "-0.0".
- Return to the "RUN" mode by using the "SELECT" button.

*Similarly the pressure in mTorr as read by channel 2 is given by $P = 100 \times V$ where V is the voltage between pins 7 and 6.

HASTINGS INSTRUMENTS

MODEL HPM-2002-OBE

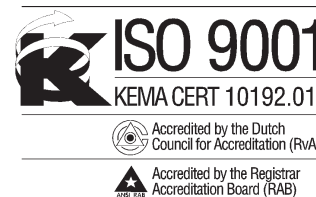
QUICK START GUIDE

READ ME FIRST!

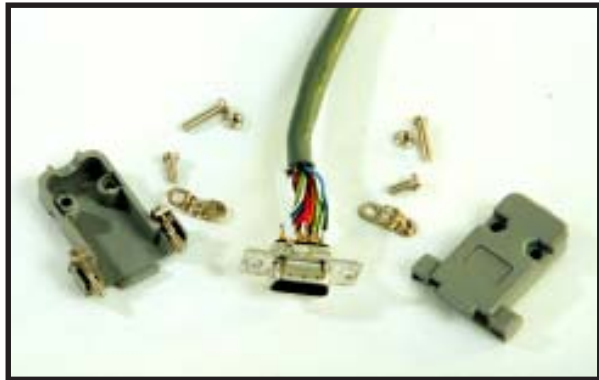
1. Unpacking and Inspection



- Unpack and inspect all items for any obvious signs of damage due to shipment. Immediately advise the carrier who delivered the shipment if any damage is suspected.



2. Cable Connections (0-10 output)



Pin No.	Color (suggested)	Description
1	Green	Setpoint #1 Output (Hi)
2	Blue	Setpoint #2 Output (Lo)
3	Red	Power Input (9-36 VDC)
4	Black	Power Ground
5	White	Analog Out (1000 Torr)
6	White/Black	Analog Ground
7	Red/White	Analog Out (1000 mTorr)
8	Black/White	Digital Ground
9	Orange	Remote Zero
10	Green/White	NC
11	Blue/White	NC
12	Red/Black	NC
13	Orange/Black	NC
14	Green/Black	Rx In (Internal use)
15	Blue/Black	Tx Out (Internal use)

- Wire the 15-pin "D" connector according with the wiring table using 24 AWG or other suitable wire.
- Using a unipolar DC power supply, set the desired operating voltage within the range of 11.5 VDC to 30 VDC.

3. OBE Module Installation



- Connect the OBE module to the HPM-2002 sensor tube.
- Note that the connector is keyed.
- A finger tight connection is all that is required for adequate operation.

