

SEAKEEPER VACUUM GAUGE OPERATION - 129



PRODUCT ALL SEAKEEPER MODELS

SUMMARY

To enable service technicians to quickly measure Seakeeper enclosure pressure without the use of a vacuum service kit.

BACKGROUND

Seakeeper models equipped with vacuum sensors on their enclosure read in units of Torr. A Torr is equivalent to one mm(Hg) absolute pressure. One atmosphere is equal to 760 torr or 760 mm(Hg).

NOTES AND PRECAUTIONS

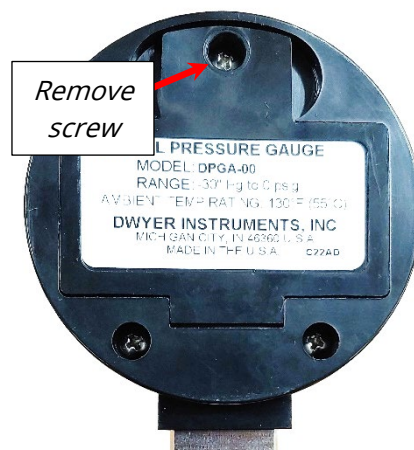
1. Loss of enclosure vacuum may occur if procedure not followed correctly.
2. Damage to gauge will occur if subjected to pressures greater than 30 psi.
3. Vacuum gauge LCD will flash "OFL", if pressure applied is over 105% full scale. "OFL" may also be displayed when device subjected to electromagnetic interference between 0.9 and 1 GHz.
4. Vacuum gauge will shut off automatically after 20 minutes of no activity.
5. Vacuum gauge requires an alkaline 9V battery to operate.

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PROCEDURE

1. With Phillips #2 screwdriver, **REMOVE** single screw holding backplate.
2. **INSERT** alkaline 9V battery.
3. **REINSERT** backplate and screw.
4. **PRESS** ON/OFF button to power gauge on.
5. **IF** units displayed NOT "MMHG," **THEN HOLD** down both the ON/OFF and ZERO button to cycle through measurement units **AND SELECT** "MMHG" (millimeters of mercury).



6. **PRESS AND HOLD** ZERO button.
7. **WHEN** gauge displays "- - -", **THEN RELEASE** button to zero gauge.
8. **ENSURE** reading between "-1" and "1." (It may fluctuate)
9. **REMOVE** vacuum service port dust cover.



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10. **RETRACT** plunger of gauge assembly.



CAUTION:

**VACUUM SERVICE PORT OR GAUGE ASSEMBLY DAMAGE MAY OCCUR
if gauge assembly nut over-tightened.**

11. **MOUNT** assembly to vacuum port **AND TIGHTEN** bronze nut.
12. **LOWER** plunger **AND THREAD** clockwise into vacuum port fitting. (**NOTE:** Gauge may not read correctly while plunger is down.)



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NOTE:

760 Torr and 760 mm(Hg) are equivalent. Atmosphere is typically near 760 mm(Hg) at sea level.

13. **RETRACT** plunger **AND NOTE** vacuum reading in mm(Hg).
14. **SUBTRACT** gauge reading from **760** to obtain enclosure pressure in Torr.

EXAMPLE: Gauge reads "-749."

$$760 - 749 = 11 \text{ mmHg or Torr}$$

15. Once reading recorded, **LOWER** plunger completely.
16. **TURN** plunger counterclockwise until threads felt disengaged from service plug.
17. **RETRACT** plunger.

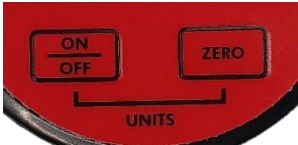


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- 18. **LOOSEN** gauge assembly bronze nut.
- 19. **REMOVE** gauge assembly from vacuum service port.
- 20. **INSTALL** service port dust cover.
- 21. **PRESS AND HOLD** ON/OFF button to power gauge off.



***** **END** *****

REVISION	DESCRIPTION	APPROVAL	DATE
1	Initial release	T Messner	06APR2022
2	Added additional gauge operation detail		02SEP2022