

LRDP

Low-Range Differential Pressure System

Product Data Sheet and System Specification

Dimensions

<i>Diameter of base sensor-housing cylinder</i>	7 13/16 in. (19.9 cm)
<i>Height of base sensor-housing cylinder</i>	16.0 in. (45.7 cm)
<i>Diameter of reference tube</i>	3 1/2 in. (8.9 cm)
<i>Height of constant-diameter reference tube</i>	0 to 50 ft (15.2 m)
<i>Height of shaped reference tube</i>	0-12 ft (3.7 m); 0-50 ft (15.2 m)
<i>Embedded controller (2 connected units)</i>	12 in. x 12 in. x 8 in. each (30.5 cm x 45.7 cm x 10.2 cm)

Weight

<i>Base sensor-housing cylinder (empty)</i>	35 lbs (16 kg)
<i>Constant diameter reference tube, including conduit</i>	5 lbs/ft (2.3 kg)
<i>Shaped reference tube, including conduit</i>	5 lbs/ft (2.3 kg)
<i>Embedded controller (2 units)</i>	60 lbs (27.3 kg) each

Detectable Leak Rate

(Probability of detection of 95%
with a probability of false alarm of 5%)

<i>For tank diameters less than 64 ft</i>	0.20 gal/h
<i>For tank diameters (D in ft) up to 139.1 ft</i>	$(3.14 \cdot (D \cdot 0.5)^2 / 6082) \cdot 0.45$ gal/h
<i>For tank diameters less than 90 ft (LRDP-48-4)</i>	0.20 gal/h (average of 4 tests)

(Probability of detection of 95%
with a probability of false alarm of 0.017%)

<i>For tank diameters (D in ft) up to 139.1 ft</i>	$(3.14 \cdot (D \cdot 0.5)^2 / 6082) \cdot 0.749$ gal/h
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(Probability of detection of 95%
with a probability of false alarm of <0.001%)

<i>For tank diameters (D in ft) up to 139.1 ft</i>	$(3.14 \cdot (D \cdot 0.5)^2 / 6082) \cdot (2.0-0.188)$ gal/h
<i>For tank diameters (D in ft) up to 139.1 ft</i>	$(3.14 \cdot (D \cdot 0.5)^2 / 6082) \cdot (3.0-0.188)$ gal/h

Power

<i>In-tank sensor unit, embedded controller, interface computer</i>	Single-phase 120 VAC 60 Hz
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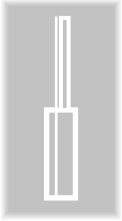
Temperature

<i>Operating</i>	-20° to 100° F (-29° to 38° C)
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User Interface

<i>System monitor</i>	<i>Vista GUI software</i> <i>Windows 95 or FAS software</i>
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