ERRATA for

PE Control Systems Practice Exam

ISBN: 978-1-947801-10-3

Errata posted 04/01/2024

Revisions are shown in red.

Solution 15, p. 60:

$\Delta P = (SG_1 \times H_H + SG_1 \times H_W - (SG_f \times H_{H+W})$

This application is a wet-leg standard DP transmitter with a fill pot. It is not a capillary DP level transmitter, and therefore the high side *H* is exposed to the process liquid SG_1, and the low side *L* is filled with SG_f from the fill seal pot.

Span (tank is full):

Span = (1.0 × 1,200 mm + 1.0 × 300 mm) – [(0.95 × (1,200 mm + 300 mm)]

= 1,500 – 1,425 mm H_2O

= +75 mm H_2O

Zero (tank is empty):

Zero = (0 × 1,200 mm + 1.0 × 300 mm) – [(0.95 × (1,200 mm + 300 mm)]

= 300 – 1,425 mm H_2O

= –1,125 mm H_2O

Therefore, the range (zero to span) is –1,125 to +75.