

# pH Error Without Temperature Compensation

| °C | 2     | 3     | 4     | 5     | 6     | 7 | 8     | 9     | 10    | 11    | 12    |
|----|-------|-------|-------|-------|-------|---|-------|-------|-------|-------|-------|
| 5  | -0.30 | -0.24 | -0.18 | -0.12 | -0.06 | 0 | 0.06  | 0.12  | 0.18  | 0.24  | 0.30  |
| 15 | -0.15 | -0.12 | -0.09 | -0.06 | -0.03 | 0 | 0.03  | 0.06  | 0.09  | 0.12  | 0.15  |
| 25 | 0     | 0     | 0     | 0     | 0     | 0 | 0     | 0     | 0     | 0     | 0     |
| 35 | 0.15  | 0.12  | 0.09  | 0.06  | 0.03  | 0 | -0.03 | -0.06 | -0.09 | -0.12 | -0.15 |
| 45 | 0.30  | 0.24  | 0.18  | 0.12  | 0.06  | 0 | -0.06 | -0.12 | -0.18 | -0.24 | -0.30 |
| 55 | 0.45  | 0.36  | 0.27  | 0.18  | 0.09  | 0 | -0.09 | -0.18 | -0.27 | -0.36 | -0.45 |
| 65 | 0.60  | 0.48  | 0.36  | 0.24  | 0.12  | 0 | -0.12 | -0.24 | -0.35 | -0.48 | -0.60 |
| 75 | 0.75  | 0.60  | 0.45  | 0.30  | 0.15  | 0 | -0.15 | -0.30 | -0.45 | -0.60 | -0.75 |
| 85 | 0.90  | 0.72  | 0.54  | 0.36  | 0.18  | 0 | -0.18 | -0.36 | -0.54 | -0.72 | -0.90 |
|    |       |       |       |       |       |   |       |       |       |       |       |

✓ Resolve problem by using a PT100, PT1000, or 3k ohm resistor