

Honeywell TotalPlant Support Online

Knowledge Base

Issue Regarding the Retrieval of PHD Confidence Values

Article ID: 14287

Creation Date: 10-JAN-00 14:59

The information in this article applies to:

☐ Uniformance / PHD

SYMPTOM / SUMMARY

A value is 'PUT' to the PHD server using any of the various methods of putting data (C API, Automation Server, PHDMAN etc.) with a confidence value that is not evenly divisible by 10. Retrieving the value immediately, returns the correct confidence value. However, retrieving the value at a later time will result in the correct value, but the confidence will be rounded to a nearest number evenly divisible by 10. For example, if you enter a value of 300 with a confidence of 42 it will be returned as a value of 300 with a confidence of 40.

CAUSE

The confidence factor is stored in the PHD memory queue as the full representation of the number. However, in the archive file the value is stored as an integer between 0 and 10, or -1 and that value is multiplied by 10 before being sent to a client program.

RESOLUTION / ACTION

Only use (or expect to receive) confidence values that are evenly divisible by 10. Care should be take when using confidence values of 0 or 50, as they are used by PHD to represent clamped data and extrapolated data (beyond one scan cycle) respectively.