

# Summary of Modifications/Changes in this Update

This Summary of Changes is for information only.  
It is not a part of the referenced document, and should not be used for project documentation.

U.S. Department of Veterans Affairs ♦ Office of Construction & Facilities Management

## **DATE OF THIS VERSION (new)**

May 1, 2023

## **TITLE OF DOCUMENT (new title if applicable):**

Direct-Digital Control System for HVAC, 23 09 23

## **DATE OF VERSION BEING SUPERSEDED (old):**

August 1, 2020

## **DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):**

Direct-Digital Control System for HVAC, 23 09 23

## **SUMMARY OF CHANGES IN THIS VERSION:**

1. Updated references and dates on standards.
2. Coordinated order of paragraphs with other sections in Division 23.
3. Corrected grammatical, punctuation and typographical errors both for corrections and for consistency with the other sections and divisions.
4. Added change is schedule of validation test plan submittal to pre-construction instead of post construction.
5. Added float switches and moisture indicators.
6. Added modulating output humidistat.
7. Deleted pneumatic (velocity pressure) air flow measurements stations / arrays.
8. Added option for EC motors on unitary equipment as that is the only option available from many manufacturers.

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## **DATE OF THIS VERSION:**

August 1, 2020

## **TITLE OF DOCUMENT:**

Direct-Digital Control System for HVAC, 23 09 23

## **DATE OF VERSION BEING SUPERSEDED (old):**

September 1, 2011

## **DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):**

Direct-Digital Control System for HVAC, 23 09 23

## **SUMMARY OF CHANGES IN THIS VERSION:**

PART 1 and PART 2 CHANGES:

1. Provided three General Notes on the first page: (a) for coordination of Paragraphs 1.1.F through Paragraph 1.1.H, (b) use of any new pneumatic and pneumatic/electric systems and (c) capability of the DDC system to communicate with the BAS, EMS, BMS and Advanced Utility Metering Systems.
2. Provided a SPEC WRITER NOTE on the first page for updating and editing the Applicable Publication list.
3. Revised Paragraphs 1.1.A.1 and 1.1.A.4, and added Paragraph 1.1.A.2.
4. Revised Paragraphs 1.1.B and 1.1.C.
5. Revised SPEC WRITER NOTE for Paragraphs 1.1.F.1, Paragraphs 1.1.G.1 and 1.1.G.2.
6. Deleted the definition of "ARCHNET" from the Paragraph 1.3.B.
7. Revised Paragraph 1.4.A.1.
8. Provided a SPEC WRITER NOTE for Article 1. 10 APPLICABLE PUBLICATIONS.
9. Coordinated the Section titles through out the body of the section (PART 1 - GENERAL, PART 2 – PRODUCTS and Part 3 – EXECUTION).

10. Edited the sections titles accordingly and revised the list under ARTICLE 1.2 RELATED WORK.
11. Corrected the section titles throughout this section to match the master list on the TIL.
12. Added the following SPEC WRITER NOTE in Article 1.10 APPLICABLE PUBLICATIONS. "Insert the year of approved latest edition of the publications between the brackets // // and delete the brackets if applicable to this project."
13. Updated the dates of the edition for the applicable publications.
14. Added Article 2.16 SAFETY, Article 3.4 COMMISSIONING and Article 3.5 TRAINING.
15. Changed VA and/or Resident Engineers to COR
16. Corrected misspelled words and made general minor revisions.

#### PART – 2 PRODUCTS ISSUES:

Following Paragraphs in Part 2 – PRODUCTS were either revised, updated, edited or deleted. This is due to the re-use of the existing products for needs of existing facilities, and the use of new products for the new facilities:

Paragraph 2.1, 2.2.D, 2.4.A and C, 2.4.C.5.e, 2.4.D.1, 2.5.B.1, 2.5.C, 2.7.C, 2.9.A.2, 2.9.3, 2.9.A.5, 2.9.B.3.a, 2.9.B.6, 2.9.C.2, 2.9.C.5, 2.9.C.6, 2.9.C.7, 2.9.C.7.a, 2.12.A.5, 2.13.A, 2.13.A.1, 2.13.D, 2.15.A, 2.15.C.3.e, 2.15.D, 2.15.D.3, 2.15.D.4, 2.15.E, 2.15.F.1

The Design Team and the Cx Team for each project should coordinate the design with the Program of Requirements of the Project before editing the spec sections. Spec Writers should not delete the SPEC WRITER NOTES and GENERAL NOTES from the Design Development (35%) document review package. (Crossing the words will be sufficient for 35% Submissions).

If working with an existing Facility, SPEC Writers should read the Paragraphs 1.1.F through Paragraph 1.1.H and coordinate project needs with the Design Team.