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[Title] Cautions when using the A1S66ADA analog to digital conversion function

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[Relevant Models] A1S66ADA

Thank you for your continued support of Mitsubishi programmable logic controllers, MELSEC-A series.

This bulletin provides cautions when using the A1S66ADA analog to digital conversion (hereinafter referred to as A/D conversion) function.

1. Caution

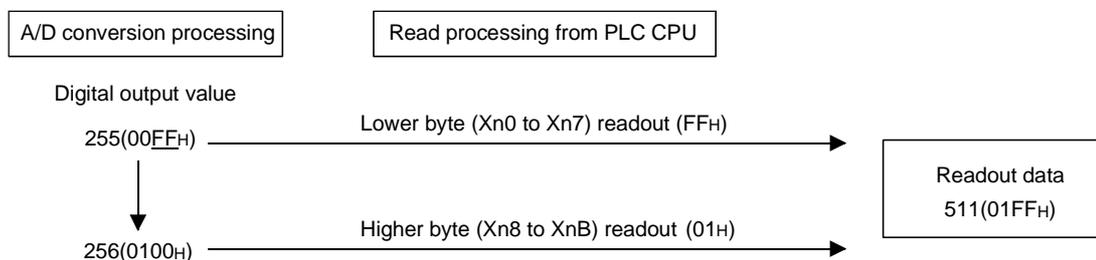
When a digital output value is read from the PLC CPU, an excessively large or small data value may be read out intermittently. To prevent this, create a sequence program that will mask these invalid values. Please refer to Section 3. Program example.

2. Detailed description

When a digital output value is read from the PLC CPU (while the A1S66ADA is performing A/D conversion), the lower byte (Xn0 to Xn7) and the higher byte (Xn8 to XnB) may be read at a different instance in time.

If this occurs, the old A/D conversion data of the lower byte and current A/D conversion data of the higher byte are stored as a 16bit value, which results in the value being incorrect. (An incorrect value is produced, when the value is incremented/decremented by 1.)

Example 1) A digital output value is read from the PLC CPU during A/D conversion of the A1S66ADA (when the value is incremented by 1).



Example 2) A digital output value is read from the PLC CPU during A/D conversion of the A1S66ADA (when the value is decremented by 1).

