June 20, 2017

Motor Business Unit,
Electromechanical Control Business Division,
Automotive & Industrial Systems Company,
Panasonic Corporation

Software Version Upgrade Notice
for AC Servo Driver of MINAS A6NE and A6NF series

Thank you for your daily support and efforts to our business.
As described below, we will upgrade the software for MINAS A6NE and A6NF series.
We would appreciate your understanding and cooperation with this matter.

■ Affected models: Servo drivers of all MINAS A6NE and A6NF series models
   (Part Number) **M*DL***N***
           Starting with M, with DL as the 3rd and 4th characters, and N as the 8th character from
           the left.

■ Description of the Change and Reason:
   (1) Expansion of serial number indication range required for the increased production of AC-servo
       drivers
   (2) The software will be upgraded from Ver1.21 to Ver1.22 for functionality improvement purposes.

No.	Function	Ver1.21 ⟶	Ver1.22
1	Indication function of serial numbers as a manufacturing code	Possible range of indication 0001 to 9999	Possible range of indication 0001 to Z999
2	Latch mode with stopping function	Not supported	Supported
3	Range expansion of Real position setting and command position setting	Range of possible position settings [command unit] (-2^{30})/Electronic)/electronic gear ratio to $(2^{30}-1)$/electronic gear ratio	Range of possible position setting [command unit] $(-2^{31}) \sim (2^{31}-1)$

[Detail of Changed Content]
   No.1) Function to indicate serial numbers as manufacturing codes
   • The range of serial numbers indicated as manufacturing codes has been expanded for accommodating
     increased production.
   • For the expanded range of serial numbers indicated as manufacturing codes, please refer to the
     "Method of Indicating Serial Numbers" on page 3/3.
   • The manufacturing code indicated in the plate attached to the side of the product surface can be
     indicated and monitored as described below.
     Use the setup support software (PANATERM) and RTEX communication system ID command (□4h)
     Check the driver serial No. (Type_Code 13h) and motor serial No. (Type_Code 23h)
   No.2) Latch mode with stop function (Pr7.78)
   A latch mode stop function (Type_Code F1h) was added to the origin point return command (24h) of RTEX
   communication.
   By using the latch mode with a stop function, the actual position is latched at the time of trigger signal entry and stops
   at the specified position by ignoring the command from higher level equipment. This function is effective when the
   motor needs to be stopped at the position specified by an external signal input. Because the change is made by
   adding the Type_Code, the existing functions can be used as they are.

No.3) Expansion of the range of actual position setting and command position setting

The effective range of the actual and command positions that can be specified by actual position setting (Type_Code 21h) and command position setting (Type_Code 22h) of the origin return command (24h) has been expanded in the RTEX communication. Because the change involves expanding the effective range, this function can be used as before with the previous range.

- Setup support software (PANATERM) for Ver1.21 will be available from Ver6.0.1.6 onward.
- Previously offered functions can be used by setting up the previous parameter file for the driver.

- This change does not affect the product characteristics or reliability.

■ Timing: The change will be applied starting from production July 2017 onwards.

■ Method of checking:
- Method involving checking the software version
  The software version can be checked by using the setup support software (PANAERM), or by checking from the RTEX communication command.

- Method of checking the year and month of manufacturing from the manufacturing code (serial number)
  The manufacturing code (serial number) shown on the name plate located on the side of the product conforms to the following rule.

Manufacturing code (serial number)
Ex. **P17070001***

Serial number *1
Month of manufacturing
Year of manufacturing
(last 2 digits of calendar year)

Check the year and month of manufacturing.

The manufacturing code (serial number) shown on the label attached to the front surface of the package box follows the following rule.

Number is not included in this label.

Manufacturing code (serial number)
Ex. **P17070001** ∗

Serial number *1
Month of manufacturing
Year of manufacturing (last 2 digits of calendar year)

Check these year and month of manufacturing.

■ Method of indicating serial numbers (*Part of page 2/3)

Indication of 0001 to   9999   0001 to 9999 Range of the previous serial numbers

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Indication of 10000 to   10999   A000 to A999 Range of the serial numbers to be expanded this time.

Indication of 11000 to   11999   B000 to B999

   :   :   :   :

Indication of 17000 to   17999   H000 to H999

Indication of 18000 to   18999   J000 to J999   *I is not used.

   :   :   :   :

Indication of 22000 to   22999   N000 to N999

Indication of 23000 to   23999   P000 to P999 *O is not used.

Indication of 33000 to   33999   Z000 to Z999

END