

AC Servo Drives Σ-7-Series Servomotors with Batteryless Encoders

No Battery, No Maintenance

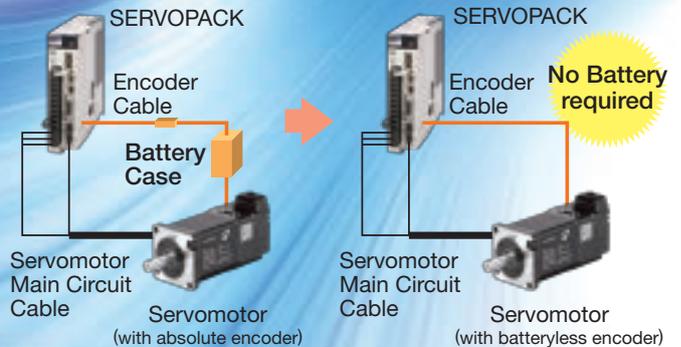


Σ-7 Series
Applicable models
SGM7J
SGM7A
SGM7P
SGM7G



Easier Wiring

You can eliminate Batteries and Battery Cases used for individual Servo Drives or on the host controller to simplify wiring in the control panel.



Maintenance-free



No time or effort for replacement

There is no need to perform battery replacement during maintenance.



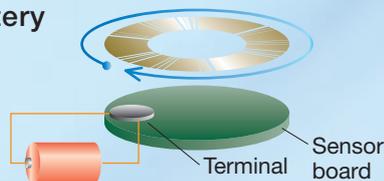
No inventory management

There is no need to stock batteries.

Batteryless Encoder Mechanism

With battery

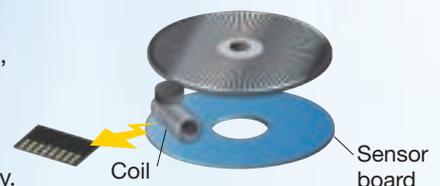
Data in volatile memory is saved with the use of a battery.



If the battery runs out, the rotational data will be lost.

Batteryless

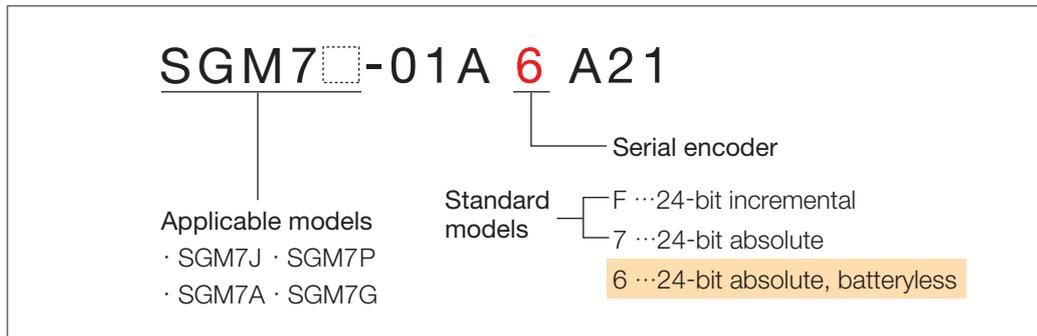
When the motor turns, power is generated by the magnet and coil to store the data in non-volatile memory.



Batteryless encoders remove worries about the battery running out and losing rotational data.

Model Designations

The code is "6" for the 4th digit of the servomotor with batteryless encoder.



Specifications

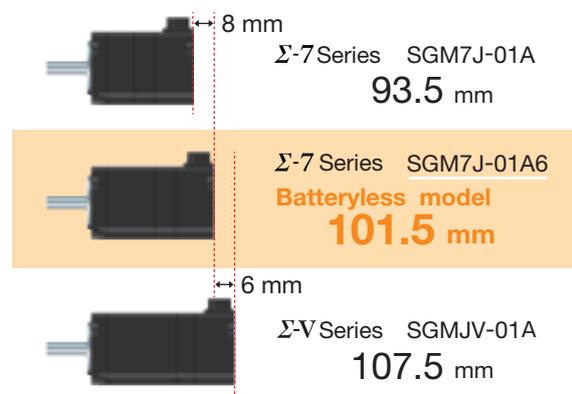
The lineup includes all Σ-7-Series rotary servomotors. You can replace your current motors with no change in performance.

Surrounding Air Temperature	0°C to 40°C (With derating, usage is possible between 40°C and 60°C.)
Impact Acceleration Rate	490 m/s ²
Vibration Acceleration Rate	49 m/s ² *
Motor Service Life	Same as for standard Σ-7-Series servomotors (Data can be saved for the length of the motor service life.)

*: The vibration acceleration rate differs for the following models.
 SGM7A-15 to -50: 24.5 m/s² front to back
 SGM7A-70 : 14.7 m/s²
 SGM7G-03 to -44: 24.5 m/s² front to back
 SGM7G-55 to -1E: 24.5 m/s²

Note: Use the cables for incremental encoders.

Motor Length (comparison with 100 W model)



Note: For 100 W model

- Comparison with Σ-7 standard models:
All servomotors are only 8 mm longer than the standard models.
- Comparison with Σ-V:
The overall length of the SGM7A or SGM7J has been reduced, but the overall length of the SGM7P or SGM7G has increased.

Compliance with Standards and Directives



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Product Information Site

<http://www.e-mechatronics.com/en/>

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