Installation Environment

· Do not expose IX system to direct sunlight or place it near a heat source.
· The ambient temperature should be between 0 and 40°C.
· The humidity level should not exceed 85% (no condensation).
· Do not expose IX system to corrosive or flammable gas.
· Avoid external vibration, unnecessary impact, or excessive shocks to IX system.
· Avoid excessive electromagnetic wave, ultra violet ray, and radioactive ray.
· Keep enough space around IX system for the instruction activities and maintenances.

Regarding Duty

SCARA IX system needs to be used within 50% duty. Duty can be calculated as follows:

$$\text{Duty (\%)} = \frac{\text{Operating Time}}{\text{Operating Time} + \text{Hold Time}} \times 100$$

Warranty Period

The warranty applies to either of the following periods, whichever comes earlier.
· 18 months after shipment
· 12 months after delivery to your specified location
· 2500 hours operation

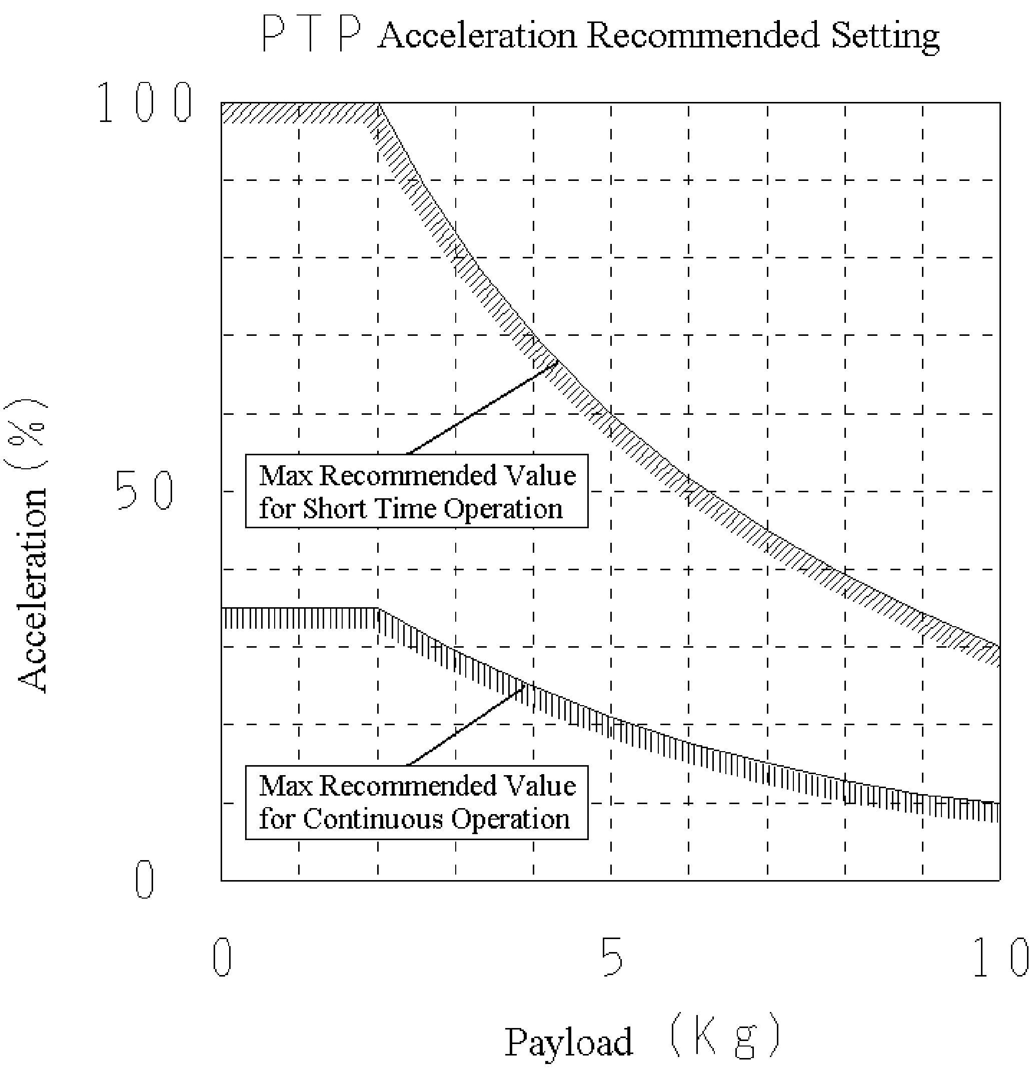
Warranty Scope

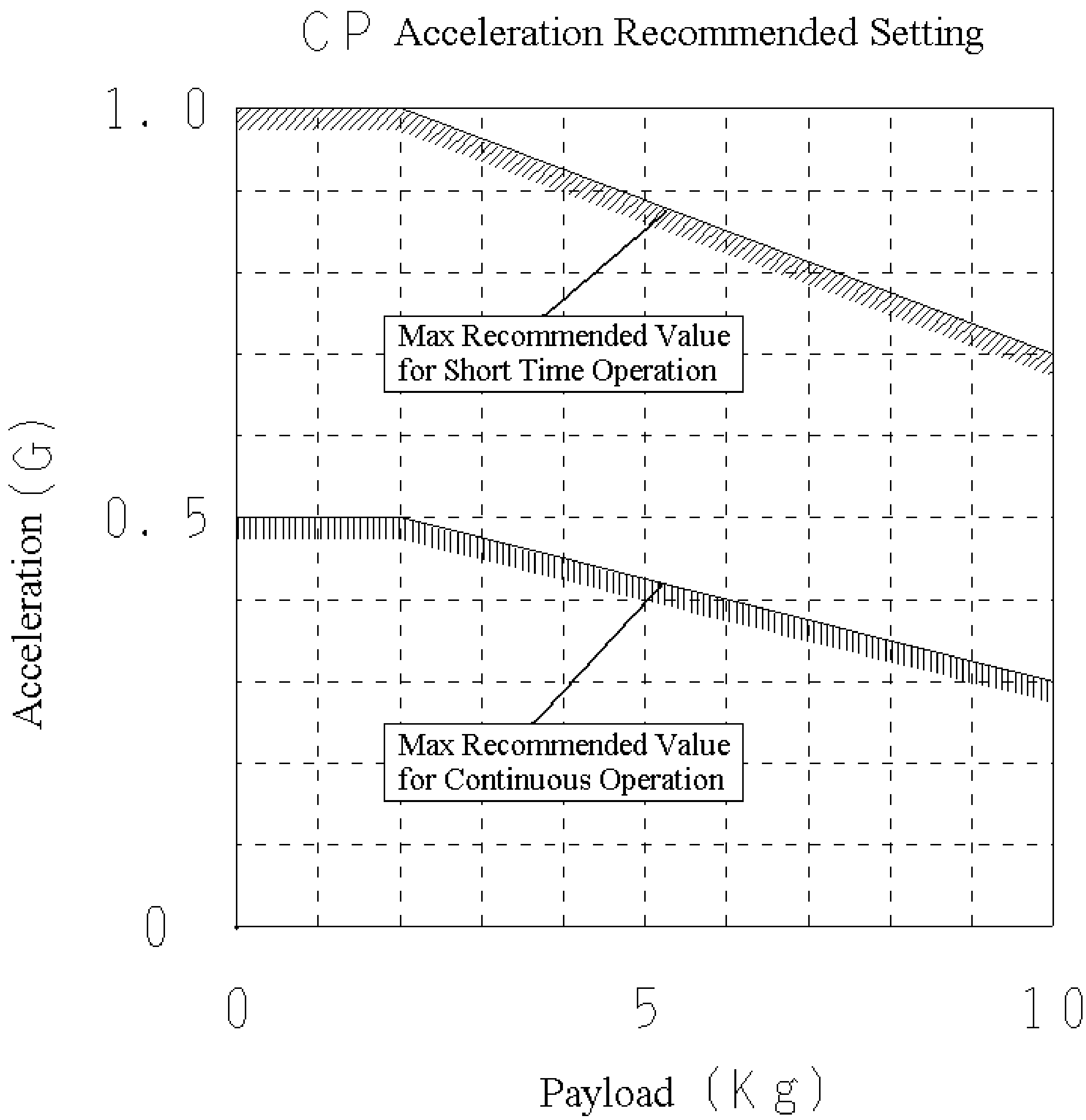
If any damage occurred as a result of proper usage and the damage was undoubtedly the manufacturer's responsibility during the above warranty period, we will provide a repair service for no charge. However, the following items are not covered by the scope of warranty.
· Natural discoloration of paint due to aging of the controller
· Damages caused by wear and tear of consumable parts
· Damages such as noise that does not affect the controller
· Damages caused by the users' inadequate handling and improper operation
· Damages caused by improper maintenance or errors
· Damages caused by the use of non IA parts
· Damages caused as a result of rebuilding the controller not approved by IA office
· Damages caused by natural disasters, accidents, or fire
This warranty only covers the damages to your purchased product itself and does not cover the damages induced by a defective product. Please bring your product to our factory to receive warranted repair services.

Scope of Service

The cost of your X-SEL Controller does not include the cost of programming or technical services. Therefore, the following services will incur additional fees.
· Instruction of installation adjustment and attendance to a test operation
· Maintenance and inspection
· Technical support and training regarding operation and wiring
· Technical support and training regarding programming
· Other charged services and works specified by our company

IX 500/600 Acceleration Settings





- The plots are for both IX 500 and 600.
- Three (3) seconds rest between the movements would be necessary for the maximum recommended settings.
- Only for PTP Movement: When the 1^{st} and the 2^{nd} axes move their full-strokes simultaneously, use the maximum recommended acceleration value for the continuous operation as for the short time operation and use 1/3 of the recommended value for continuous operation as for the continuous operation.
- Gradually increase the settings if larger than the recommended continuous operation values are used.
- If Overload Error occurs, use lower acceleration settings or put a rest step.
- If excessive vibrations exist, lower acceleration settings.
- Put Z (3^{rd}) axis closer to the up position before high speed swing movement in order to avoid the shaft bending.
- The 4^{th} axis's moment of inertia needs to be less than 0.06kg·m.
- Payload's CG should be at the rotational (4^{th}) axis. If not, further consideration would be needed.
- Please use the unit within the recommended values. Otherwise, excessive vibration, excessive part wear, and premature brake-down may occur.