For Electric Actuators
Fieldbus-compatible Gateway (GW) Unit

**Series LEC-G**

- The LE series electric actuators are applicable to Fieldbus protocols.
- Conversion unit for Fieldbus network and LEC serial communication

Applicable Fieldbus protocols:
- CC-Link V2
- DeviceNet
- EtherNet/IP

- Two methods of operation
  - Step data input: Operate using preset step data in the controller.
  - Numerical data input: The actuator operates using values such as position and speed from the PLC.

- Position, speed, etc. values can be checked on the PLC.

Compatible electric actuators:
- Electric Gripper Series LEH
- Electric Slide Table Series LES
- Electric Actuator/ Rod Type Series LEY
- Electric Actuator/ Slider Type Series LEL
- Electric Actuator/ Guide Rod Slider Series LEP
- Electric Actuator/ Rotary Type Series LER
- Electric Actuator/ Miniature Type Series LEP
- Electric Actuator/ Miniature Type Series LEP
- Electric Actuator/ Guide Rod Slider Series LEL

Compatible controllers:
- Series LEC
  - Step Motor Controller (Servo/24 VDC) Series LECP6
  - Servo Motor Controller (24 VDC) Series LECA6

Power supply:
- 24 VDC for gateway unit

Max. number of connectable controllers:
- CC-Link V2: 12
- DeviceNet: 8
- EtherNet/IP: 5
- Total: 12

Applicable Fieldbus protocols:
- 24 VDC for gateway unit
- Serial communication: RS485

Up to 12 controllers are connectable
How to Order

GW unit
LEC - G [MJ2]

- Applicable Fieldbus protocols:
  - MJ2: CC-Link Ver. 2.0
  - DN1: DeviceNet™
  - PR1: PROFIBUS DP
  - EN1: EtherNet/IP™

- Mounting:
  - Nil
  - Screw mounting
  - D: DIN rail mounting

Cable
LEC - CG [1 - L]

- Cable type:
  1. Communication cable
  2. Cable between branches

- Cable length:
  - K: 0.3 m
  - L: 0.5 m
  - 1: 1 m

Branch connector
LEC - CGD

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>LEC-GMJ2</th>
<th>LEC-GDN1</th>
<th>LEC-GPR1</th>
<th>LEC-GEN1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fieldbus</td>
<td>CC-Link</td>
<td>DeviceNet™</td>
<td>PROFIBUS DP</td>
<td>EtherNet/IP™</td>
</tr>
<tr>
<td>Version</td>
<td>Ver. 2.0</td>
<td>Release 2.0</td>
<td>V1</td>
<td>Release 1.0</td>
</tr>
<tr>
<td>Communication speed [bps]</td>
<td>156 k/625 k/2.5 M /5 M/10 M</td>
<td>125 k/250 k/500 k</td>
<td>9.6 k/19.2 k/45.45 k/93.75 k/187.5 k/500 k/1.5 M/3 M/6 M/12 M</td>
<td>10 M/100 M</td>
</tr>
<tr>
<td>Configuration file</td>
<td>EDS file</td>
<td>GSD file</td>
<td>EDS file</td>
<td></td>
</tr>
<tr>
<td>I/O occupation area</td>
<td>4 stations occupied (8 times setting)</td>
<td>Input 896 points 108 words Output 896 points 108 words</td>
<td>Input 186 bytes Output 182 bytes</td>
<td>Input 57 words Output 57 words Input 256 bytes Output 256 bytes</td>
</tr>
<tr>
<td>Power supply for communication</td>
<td>—</td>
<td>—</td>
<td>11 to 25 VDC</td>
<td>—</td>
</tr>
<tr>
<td>Power supply voltage [V]</td>
<td>—</td>
<td>—</td>
<td>100</td>
<td>—</td>
</tr>
<tr>
<td>Internal current consumption [mA]</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Communication connector specifications</td>
<td>Connector (Accessory)</td>
<td>Connector (Accessory)</td>
<td>D-sub</td>
<td>RJ45</td>
</tr>
<tr>
<td>Power supply voltage [V]</td>
<td>24 VDC ±10%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current consumption [mA]</td>
<td>200</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EMG output terminal</td>
<td>Connected to teaching box</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Controller specifications</td>
<td>Not connected to teaching box</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Applicable controllers</td>
<td>Series LEC6, Series LECA6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Communication speed [bps]</td>
<td>115.2 k/230.4 k</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. number of connectable controllers</td>
<td>12</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accessories</td>
<td>Power supply connector, communication connector</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>32 to 104°F (0 to 40°C) (No freezing)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating humidity range [%RH]</td>
<td>90 or less (No condensation)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Storage temperature range</td>
<td>14 to 140°F (−10 to 60°C) (No freezing)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Storage humidity range [%RH]</td>
<td>90 or less (No condensation)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>Screw mounting type 7.05 oz (200 g)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DIN rail mounting type</td>
<td>7.76 oz (220 g)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note 1) Please note that the version is subject to change.
Note 2) Each file can be downloaded from the SMC website, http://www.smcworld.com
Note 3) When using a teaching box (LEC-T1-L50132), set the communication speed to 115.2 kbps.
Note 4) Communication response time for 1 controller is approximately 30 ms.
Note 5) For step data input, up to 12 controllers connectable.
System Construction

Gateway (GW) unit

Applicable Fieldbus protocols:
- CC-Link Ver. 2.0
- DeviceNet™
- PROFIBUS DP
- EtherNet/IP™

- Power supply connector (Accessory)
  - To CN4

- Communication connector (Accessory)*
  - CC-Link Ver. 2.0
  - DeviceNet™ only
  - To CN3

- Power supply connector (Accessory)
  - To CN1

- Communication cable
  - LEC-CG1-

- Cable between branches
  - LEC-CG2-

- Terminating resistor
  - 120 Ω
  - (Supplied by customer)

- Branch connector
  - LEC-CGD

- Communication cable
  - LEC-CG1-

- Communication cable
  - LEC-CG2-

- Power supply connector (Accessory)
  - To CN4

- Power supply connector (Accessory)
  - To CN1

- Controller

Option

- Controller setting software
  - (Communication cable and USB cable are included.)
  - Part no.: LEC-W1
  - PC
    - (Supplied by customer)

- USB cable
  - (A-miniB type)

- Teaching box
  - (with 3 m cable)
  - Part no.: LEC-T1-3JG

- Communication cable
  - LEC-CG1-

- Controller input power supply

- Controller input power supply

- Electric actuators
  - Series LEH
  - Series LES
  - Series LEY
  - Series LEF

- Compatible electric actuators
  - Electric Gripper
  - Electric Slide Table
  - Electric Actuator/Rod Type
  - Electric Actuator/Slider Type
  - Electric Actuator/Rotation Table
  - Electric Actuator/Miniature Type
  - Electric Actuator/Guide Rod Slider
  - Series LEH
  - Series LES
  - Series LEY
  - Series LEF
  - Series LER
  - Series LEP
  - Series LEL

- Compatible controllers
  - Step Motor Controller
    - (Servo/24 VDC)
  - Servo Motor Controller
    - (24 VDC)
  - Series LECP6
  - Series LECA6

Note) Connect the 0 V terminals for both the controller input power supply and gateway unit power supply.
Dimensions

Screw mounting (LEC-G□□□)

Applicable Fieldbus protocol: CC-Link Ver. 2.0

Applicable Fieldbus protocol: DeviceNet™

Applicable Fieldbus protocol: PROFIBUS DP

Applicable Fieldbus protocol: EtherNet/IP™
For Electric Actuators
Fieldbus-compatible Gateway (GW) Unit
Series LEC-G

Dimensions

DIN rail mounting (LEC-G□□□□D)

Applicable Fieldbus protocol: CC-Link Ver. 2.0

Applicable Fieldbus protocol: DeviceNet™

Applicable Fieldbus protocol: PROFIBUS DP

Applicable Fieldbus protocol: EtherNet/IP™

DIN rail
AXT100-DR-□

* For □, enter a number from the "No." line in the table below.
Refer to the dimensions above for the mounting dimensions.

<table>
<thead>
<tr>
<th>L Dimension [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
</tr>
<tr>
<td>L</td>
</tr>
<tr>
<td>No.</td>
</tr>
<tr>
<td>L</td>
</tr>
</tbody>
</table>
Response time between gateway unit and controllers depends on the number of controllers connected to the gateway unit. For response time, refer to the graph below.

* This graph shows delay times between gateway unit and controllers. Fieldbus network delay time is not included.