LT4000M Series

Display + Control Hybrid Model enables more flexible and space saving installations.

### All-in-one Unit

All-in-one design makes it easy to keep equipment compact and allows installation in a φ22 mm hole for easy panel mounting.* Easily troubleshoot equipment by replacing the display unit or the control unit.

* The 22mm hole is the standard size used for buttons or lamps.

### Flexible Installation

Use a separation cable* to install the control unit on a DIN rail and the operation unit in a different location. Operation unit is space-saving, and it allows you to install flexibly even where it is difficult to install due to limitations of space.

* 3m and 5m cables are available.

### Compact Size

The crisp display let you create easy-to-read yet detailed operation screens. The integrated control functionality provides Digital I/O, Analog I/O, and Analog temperature inputs as well as USB, serial, and Ethernet communication ports.

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The LT4000M provides data exchange with various remote devices via CANopen for an economical and user-friendly system design. Choose between standard I/O modules or more sophisticated products such as motion or control for complex applications.

### Pro-face Remote HMI

The natural link between the process and your tablet or smartphone. By adding the APP true mobile operation will be possible without loss of operability. Confirm the cause of an error directly with your mobile device and see if the machine can be put back into operation without going on site.*

* Supported from beginning of 2014.

### Lineup

<table>
<thead>
<tr>
<th>Series</th>
<th>Product</th>
<th>Display Size</th>
<th>Resolution</th>
<th>LCD</th>
<th>Color</th>
<th>Ethernet</th>
<th>Serial</th>
<th>USB (host)</th>
<th>USB (Device)</th>
<th>Built-in DIO</th>
<th>Built-in AIO</th>
<th>Special DIO</th>
<th>Expansion Unit</th>
<th>Controller Memory Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>LT4000M</td>
<td>LT-4301TM</td>
<td>3.5”</td>
<td>QVGA 320×240pixels</td>
<td>TFT</td>
<td>65,536</td>
<td>1</td>
<td>1 (RS485)</td>
<td>1</td>
<td>2</td>
<td>1</td>
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<td>2</td>
<td>Pulse Output, PWM Output</td>
<td>63 Nodes</td>
</tr>
<tr>
<td></td>
<td>LT-4301LM</td>
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<td>1</td>
<td>1 (RS485)</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>Pulse Output, PWM Output</td>
<td>63 Nodes</td>
</tr>
<tr>
<td></td>
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<td>QVGA 320×240pixels</td>
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<td>1 (RS485)</td>
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<td>Pulse Output, PWM Output</td>
<td>63 Nodes</td>
</tr>
<tr>
<td></td>
<td>LT-4201LM</td>
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<td>TFT</td>
<td>65,536</td>
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<td>1 (RS485)</td>
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<td>2</td>
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<td>2</td>
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<td>Pulse Output, PWM Output</td>
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<tr>
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<td>63 Nodes</td>
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<tr>
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<td>5.7”</td>
<td>QVGA 320×240pixels</td>
<td>TFT</td>
<td>65,536</td>
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<td>1 (RS485)</td>
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<td>2</td>
<td>2</td>
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<td>Pulse Output, PWM Output</td>
<td>63 Nodes</td>
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<tr>
<td></td>
<td>LT-3201L</td>
<td>5.7”</td>
<td>Monochrome 320×240pixels</td>
<td>TFT</td>
<td>65,536</td>
<td>1</td>
<td>1 (RS485)</td>
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<td>2</td>
<td>2</td>
<td>2</td>
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<td>Pulse Output, PWM Output</td>
<td>63 Nodes</td>
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<tr>
<td></td>
<td>LT-3201A</td>
<td>3.8”</td>
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<td>2</td>
<td>2</td>
<td>Pulse Output, PWM Output</td>
<td>63 Nodes</td>
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</tbody>
</table>

**Notes:**
- The 22mm hole is the standard size used for buttons or lamps.
- 3m and 5m cables are available.
- Supported from beginning of 2014.

**Features:**
- Display + Control Hybrid Model enables more flexible and space saving installations.
- All-in-one design makes it easy to keep equipment compact and allows installation in a φ22 mm hole for easy panel mounting.*
- Use a separation cable* to install the control unit on a DIN rail and the operation unit in a different location.
- Operation unit is space-saving, and it allows you to install flexibly even where it is difficult to install due to limitations of space.
- The crisp display let you create easy-to-read yet detailed operation screens.
- The integrated control functionality provides Digital I/O, Analog I/O, and Analog temperature inputs as well as USB, serial, and Ethernet communication ports.
- The LT4000M provides data exchange with various remote devices via CANopen for an economical and user-friendly system design.
- Choose between standard I/O modules or more sophisticated products such as motion or control for complex applications.
- The natural link between the process and your tablet or smartphone. By adding the APP true mobile operation will be possible without loss of operability.
- Confirm the cause of an error directly with your mobile device and see if the machine can be put back into operation without going on site.*

**Specifications:**
- LT4000M Series
  - LT-4301TM (DIO model)
  - LT-4301LM (Analog model)
  - LT-4201TM (DIO model)
  - LT-4201LM (Analog model)
- LT3000 Series
  - LT-3300T
  - LT-3300L
  - LT-3201L
  - LT-3201A
- Display sizes: 3.5” (LT-4301TM/LT-4301LM), 5.7” (LT-4201TM/LT-4201LM/LT-3300T/LT-3300L/LT-3201L/LT-3201A)
- LCD: QVGA 320×240 pixels
- Color: TFT
- Ethernet: 1 (RS485)
- Serial: 1 (D-sub9)
- USB (host): 1
- USB (Device): 2
- Built-in DIO: 1
- Built-in AIO: 1
- Special DIO: 4
- Expansion Unit: 3 Units Max.
- Controller Memory Size: 132KB (Up to 32,000 Steps)

**Additional Information:**
- All-in-one design makes it easy to keep equipment compact and allows installation in a φ22 mm hole for easy panel mounting.*
- The LT3000 Series offers various options for display size and color (Monochrome, Monochrome with Amber / Red, LCD 65,536).
- The LT4000M Series supports Pro-face Remote HMI for mobile operations, enabling true mobile operation without loss of operability.
- CANopen slaves, HMI, CANopen master configurations are supported.
- Flexible installation with separation cables for DIN rail and operation unit.
- Compact size with detailed operation screens and integrated control functionality.
- CANopen Networking for data exchange with remote devices for an economical and user-friendly system design.
- Pro-face Remote HMI for mobile operations and easy troubleshooting.

* The 22mm hole is the standard size used for buttons or lamps.
* 3m and 5m cables are available.
LT4000M Series

Display + Control Hybrid Model enables more flexible and space saving installations.

**All-in-one Unit**
All-in-one design makes it easy to keep equipment compact and allows installation in a φ22 mm hole for easy panel mounting.* Easily troubleshoot equipment by replacing the display unit or the control unit.

**Flexible Installation**
Use a separation cable* to install the control unit on a DIN rail and the operation unit in a different location. Operation unit is space-saving, and it allows you to install flexibly even where it is difficult to install due to limitations of space.

**Compact Size**
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The LT4000M provides data exchange with various remote devices via CANopen for an economical and user-friendly system design. Choose between standard I/O modules or more sophisticated products such as motion or control for complex applications.

**Pro-face Remote HMI**
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<th>Series</th>
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<th>Resolution</th>
<th>LCD</th>
<th>Color</th>
<th>Ethernet</th>
<th>Serial</th>
<th>DIO + USB *</th>
<th>USB *</th>
<th>Built-in DIO</th>
<th>Built-in AIO</th>
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<td>LT-4301TM</td>
<td>5.7”</td>
<td>QVGA 320×240pixels</td>
<td>TFT</td>
<td>65,536</td>
<td>1</td>
<td>1 (RJ45)</td>
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<td>1</td>
<td>20 10 – –</td>
<td>2</td>
<td>High-speed Counter (with Synchronous Output) Pulse Catch Input</td>
<td>2 Pulse Output PWM Output</td>
<td>–</td>
</tr>
<tr>
<td>Series</td>
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<td>16 16 – –</td>
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<td>3 Units Max. Up to 48 IOs</td>
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<tr>
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<td>1</td>
<td>16 16 – –</td>
<td>4</td>
<td>High-speed Counter (with Synchronous Output) Pulse Catch Input Pulse Output PWM Output</td>
<td>–</td>
<td>3 Units Max. Up to 48 IOs</td>
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<tr>
<td>LT-3201L</td>
<td>LT-3201A</td>
<td>3.8”</td>
<td>Monochrome 16 Shades</td>
<td>TFT</td>
<td>65,536</td>
<td>1</td>
<td>1 (D-sub9)</td>
<td>–</td>
<td>1</td>
<td>16 16 – –</td>
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<td>High-speed Counter (with Synchronous Output) Pulse Catch Input Pulse Output PWM Output</td>
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* Supported from beginning of 2014.

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**Notes:**
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---

**Specifications:**
- Series LT4000M
- Series LT3000
- LT-4301TM
- LT-4300L
- LT-4201L
- LT-4201A
- LT-3300T
- LT-3300L
- LT-3201L
- LT-3201A

**Memory Size:**
- FLASH EPROM 132KB Equivalent to 15,000 Steps (Up to 60,000 Steps)
Connect to a wide range of control equipment

Pro-face HMIs support connection with a wide range of industrial controllers including PLCs, motion controllers, robots, and other devices.

GP-Pro EX

Improving development efficiency and maintaining technical know-how.

Screens and logic programs can be edited with the same software, and the same addresses or user-defined control symbols can be shared for both screen parts and logic elements with drag-and-drop operation.

Controller addresses can be written directly to help reduce development time. Using the Function Block feature lets you reuse configured logic components and protect technical know-how via password protection.

Easily verify and debug projects with GP-Pro EX.

GP-Pro EX Simulation is an off-line simulation function which enables verification of screens, logic programs, and program operation without connecting to an HMI.

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Remote Monitoring

Use remote monitoring software, GP-Viewer or data management software, Pro-Server EX to easily monitor and control HMI screens on the production site, or distribute instruction data and collect real-time production data.

For further information, visit our website.

http://www.pro-face.com/product/soft/gpproex/driver/driver.html

*1 Only for units with Ethernet.
*2 Only for LT4000M Series.
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Pro-face HMIs support connection with a wide range of industrial controllers including PLCs, motion controllers, robots, and other devices.

GP-Pro EX

Improving development efficiency and maintaining technical know-how.

Screens and logic programs\(^1\) can be edited with the same software\(^2\), and the same addresses or user-defined control symbols can be shared for both screen parts and logic elements with drag-and-drop operation. Controller addresses can be written directly to help reduce development time. Using the Function Block feature lets you reuse configured logic components and protect technical know-how via password protection.

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\(^*1\) IEC 61131-3-compliant
\(^*2\) LT4000M Series requires GP-Pro EX Ver.3.12 or later.

*1 Only for units with Ethernet.
*2 Only for LT4000M Series.

For further information, visit our website.
**External Dimensions / Panel Cut-Out**

**LT-4301TM**
- Panel Cut-Out: unit: mm [in.]
- External Dimensions: unit: mm [in.]

**LT-4201TM**
- Panel Cut-Out: unit: mm [in.]
- External Dimensions: unit: mm [in.]

**LT-3300T/L**
- Panel Cut-Out: unit: mm [in.]
- External Dimensions: unit: mm [in.]

**LT-3201A**
- Panel Cut-Out: unit: mm [in.]
- External Dimensions: unit: mm [in.]

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**Options**

**Software**

**I/O Units (EX Module / CANopen unit)**

**External Dimensions**

**Panel Cut-Out**

**Cable, Adapter, and other options.**

**Maintenance Options**

For list of the maintenance options, if a product is damaged or lost, please visit our website.

For further information, visit our website.

http://www.pro-face.com/product/bm/lt4000m/option/option_other.html
### Options

#### Software

##### Product Name: GP-viewer EX

- **Global Code:** PFXPICK**
- **Description:** Software that connects a PC to a LT via Ethernet and collects and transmits data

##### Product Name: GP-Pro EX Group License

- **Global Code:** PPXPT**
- **Description:** Software that connects a PC to a LT via Ethernet and collects and transmits data

##### Product Name: GP-Pro EX Editor Group License

- **Global Code:** PFXP**
- **Description:** Software that connects a PC to a LT via Ethernet and collects and transmits data

##### Product Name: GP-Pro EX Developer

- **Global Code:** PFXB**
- **Description:** Software that connects a PC to a LT via Ethernet and collects and transmits data

##### Product Name: RTU-DBS EX

- **Global Code:** PFXA**
- **Description:** Software that connects a PC to a LT via Ethernet and collects and transmits data

##### Product Name: GP-Viewer EX<br>GP-Pro EX Group License<br>GP-Pro EX Editor Group License<br>GP-Pro EX Developer<br>RTU-DBS EX

- **Global Code:** PFXN**
- **Description:** Software that connects a PC to a LT via Ethernet and collects and transmits data

### I/O Units (EX Module / CANopen unit)

#### LT-4301TM / LT-4201TM

- **Connection Types:** 4-ch Analog Input / 2-ch Analog Output Expansion Unit
- **Global Code:** PFXZC4AT61
- **Description:** 4-ch Analog Input / 2-ch Analog Output Expansion Unit

#### LT-3300T/L / LT-3301 / LT-3201A

- **Connection Types:** 4-ch Analog Input / Temperature Input Expansion Unit
- **Global Code:** PFXZXMADSM31
- **Description:** 4-ch Analog Input / Temperature Input Expansion Unit

### Cable, Adapter, and other options.

#### LT-4301TM / LT-4201TM

- **Connection Types:** USB Type A to B (5m)
- **Global Code:** PFXZC9USEXMB1
- **Description:** USB Type A to B (5m)

#### LT-3300T/L / LT-3301 / LT-3201A

- **Connection Types:** USB Type A to B (5m)
- **Global Code:** PFXZC3DS61
- **Description:** USB Type A to B (5m)

### Maintenance Options

For list of the maintenance options, if a product is damaged or lost, please visit our website.

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For further information, visit our website: [http://www.pro-face.com/en/brochure/l4000m/option_other.html](http://www.pro-face.com/en/brochure/l4000m/option_other.html)
| Control Instruction List |

### Basic Instruction
- Bit Basic
- Normally Open (NO)
- Normally Closed (NC)
- Coil (OUT)
- Negative out (OUT)
- Soft (SFT)
- Pulse Basic
- Positive Transition (PT)
- Negative Transition (NT)
- Program Control
  - Function Block (FB)
  - Jump (JMP)
  - Jump to Subroutine (JSR)
  - Return (RTN)
  - Repeat Number of Times (FOR)
  - Repeat Number of Times (NEXT)
  - Inverse (INV)
  - End (END)
  - Power Bar Control (PBC)
  - Power Bar Reset (PRR)
  - Logic Wait Instruction (LWA)

### Read / Write Instruction
- Read / Write Instruction
  - Time Read / Write (TREAD)
  - Time Read (TREAD)
  - Time Sat (TSAT)
  - Data Read / Write (DREAD)
  - Data Read (DRD)
  - Data Set (DS)

### Operation Instruction
- Operation Instruction
  - Rotation
    - Rotate Left (RL)
    - Rotate Right (RR)
    - Rotate Left with Carry Over (RLC)
    - Rotate Right with Carry Over (RRC)
  - Shift
    - Shift Left (SL)
    - Shift Right (SR)
    - Arithmetic Shift Left (ASL)
    - Arithmetic Shift Right (ASR)

### Function Instruction
- Function Instruction
  - Calculation Function
    - Sum
    - Average
    - Square Root
    - Bit Count
    - Time Operation
      - Time Addition (TADJ)
      - Time Subtraction (TSUB)
  - Logical Operation
    - Logical AND (AND)
    - Logical OR (OR)
    - Logical XOR (XOR)
    - Logical NOT (NOT)
  - Transfer
    - Move (MVO)
    - Block Move (BMV)
    - Full Move (FMM)
    - Exchange (EXCHANGE)
  - Trigonometric Function
    - Sine (SIN)
    - Cosine (COS)
    - Tangent (TAN)
    - Arc Sine (ARCSIN)
    - Arc Cosine (ARCCOS)
    - Arc Tangent (ARCTAN)
    - Cotangent (COT)
  - Other Functions
    - Exponential
    - Logarithm
    - Date Read
    - Time Read
    - Time Addition
    - Time Subtraction
    - Time Operation
    - Memory Operation
    - Data Operation
    - Function Block Operation
    - Instruction (e.g., JMPP, JSRP, etc.)
    - Date Compare
      - Date Compare (>)
      - Date Compare (=)
      - Date Compare (>)
    - Time Compare
      - Time Compare (>)
      - Time Compare (=)

### Compare Instruction
- Compare Instruction
  - Arithmetic Compare
    - Equal (>)
    - Greater Than (>)
    - Greater Than or Equal to (>=)
    - Less Than (<)
    - Less Than or Equal to (<=)
    - Not Equal (#)
    - Time Compare
      - Time Compare (>)
      - Time Compare (=)

### Convert Instruction
- Convert Instruction
  - Type Convert
    - Convert Integer to Float (IF)
    - Convert Integer to Real (IR)
  - Float Convert to Integer (FI)
    - Convert Float to Real (FR)
    - Convert Real to Float (AR)
  - Convert Seconds to Time (ST)
  - Convert Seconds to Time (ST)

### Instruction for I/O Driver
- STD Driver
  - Change Pulse Output Parameter (PLS)
  - Change Acceleration / Deceleration Pulse Output Parameter (PLS)
  - Change Pulse Output Parameter (PLS)
  - Change PWM Output Parameter (PWM)
  - Change PWM Output Parameter (PWM)
  - Change PWM Output Parameter (PWM)
  - Change PWM Output Parameter (PWM)
  - Change PWM Output Parameter (PWM)

### Electric Equipment Instruction
- Logic Wait Instruction (LWA)

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**WARNING**

HAZARD OF OPERATOR INJURY, OR UNINTENDED EQUIPMENT DAMAGE

Before operating any of these products, be sure to read all related manuals thoroughly. Failure to follow these instructions can result in death, serious injury or unintended equipment damage.

For printing purposes, the colors in this catalog may differ from those of the actual unit.

Actual user screens may differ from the screens shown here.

Electric equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Digital for any consequences arising out of the use of this material.

---

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<th>Country</th>
<th>Address</th>
<th>Phone</th>
<th>Fax</th>
</tr>
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<td>+62 21 750 4999</td>
<td>+62 21 750 4999</td>
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<tr>
<td>South Korea</td>
<td>Pro-face Korea Co., Ltd.</td>
<td>+82 2 2630 9860</td>
<td>+82 2 2630 9860</td>
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<td>Japan</td>
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<td>+81 6 6208 3136</td>
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<tr>
<td>China</td>
<td>Pro-face China International Trading Co., Ltd.</td>
<td>+86 21 6361 3133</td>
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