

## Controller - ILC 151 ETH - 2700974

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The controller enables integration of I/O signals from MODBUS periphery devices into the control program via MODBUS/TCP. Programming takes place with PC Worx Express or PC Worx (IEC 61131-3).

### Product description

With the ILC 151 ETH, the highly modular Inline controller range from Phoenix Contact has been extended to include a powerful compact controller. This controller can be used to extend the possible field of application of Inline controllers right down to smaller applications. With direct integration into the Inline automation system, the compact controller is highly modular and can be adapted to the relevant application requirements. Its integrated Ethernet interface enables parameterization and programming using PC Worx automation software according to IEC 61131, and it can also exchange data with OPC servers simultaneously and communicate with TCP/IP-compatible devices.

The Inline controller range covers a wide performance range. From entry-level versions to high-end controllers, users can find the right controller for their application. Within the product portfolio, users can choose between controllers with different computing capacities, with or without PROFINET controllers, and with or without GL approval.

### Product Features

- Numerous protocols supported such as: HTTP, FTP, SNTP, SNMP, SMTP, SQL, MySQL, etc.
- Free engineering with PC Worx Express (IEC 61131-3)
- Complete fieldbus master (4096 I/O points)
- Integrated web server for visualization with WebVisit
- FTP server
- Flash file system



### Key commercial data

|                                      |           |
|--------------------------------------|-----------|
| Packing unit                         | 1 pc      |
| Weight per Piece (excluding packing) | 360.0 GRM |
| Custom tariff number                 | 85371091  |
| Country of origin                    | Germany   |

### Technical data

#### Note

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## Technical data

### Note

|                         |   |
|-------------------------|---|
| Utilization restriction | EMC: class A product, see manufacturer's declaration in the download area |
|-------------------------|---|

### Dimensions

|        |          |
|--------|----------|
| Width  | 80 mm    |
| Height | 119.8 mm |
| Depth  | 71.5 mm  |

### Ambient conditions

|  |  |
|--|--|
| Degree of protection                     | IP20   |
| Ambient temperature (operation)          | -25 °C ... 55 °C                                       |
| Ambient temperature (storage/transport)  | -25 °C ... 85 °C                                       |
| Permissible humidity (operation)         | 10 % ... 95 % (according to DIN EN 61131-2)            |
| Permissible humidity (storage/transport) | 10 % ... 95 % (according to DIN EN 61131-2)            |
| Air pressure (operation)                 | 70 kPa ... 106 kPa (up to 3000 m above mean sea level) |
| Air pressure (storage/transport)         | 70 kPa ... 106 kPa (up to 3000 m above mean sea level) |
| Shock                                    | 25g, Criterion 1, according to IEC 60068-2-27          |
| Vibration (operation)                    | 5g   |

### Control system

|                    |                               |
|--------------------|-------------------------------|
| Programming tool   | PC Worx/PC Worx Express       |
| Diagnostics tool   | DIAG+                         |
| Configuration tool | Config+ Version 1.01 or later |

### Mechanical design

|        |       |
|--------|-------|
| Weight | 285 g |
|--------|-------|

### Data interfaces

|                    |   |
|--------------------|---|
| Interface          | INTERBUS local bus (master)                                     |
| Connection method  | Inline data jumper  |
| Transmission speed | 500 kBaud / 2 MBaud umschaltbar                                 |
| Interface          | Parameterization/operation/diagnostics                          |
| Connection method  | RS-232-C, 6-pos. MINI-DIN socket (PS/2), Ethernet 10/100 (RJ45) |
| Transmission speed | max. 115,2 kBit/s   |
| Interface          | Ethernet 10Base-T/100Base-TX                                    |
| Connection method  | RJ45 socket   |
| Transmission speed | 10/100 MBit/s   |

### PROFINET IO

|                 |                 |
|-----------------|-----------------|
| Device function | PROFINET device |
|-----------------|-----------------|

### Power supply

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## Technical data

### Power supply

|                             |   |
|-----------------------------|---|
| Typical current consumption | 210 mA  |
| Max. current consumption    | 870 mA (370 mA communications power + 500 mA analog voltage supply) |
| Supply voltage              | 24 V DC   |
| Supply voltage range        | 19.2 V DC ... 30 V DC   |
| Residual ripple             | ± 5 %   |

### Fieldbus function

|   |   |
|---|---|
| Amount of process data                            | max. 4096 Bit (INTERBUS)                |
|   | max. 16384 Bit (internal Modbus Client) |
| Number of supported devices                       | max. 128                                |
| Number of local bus devices that can be connected | max. 63 (observe current consumption)   |
| Number of devices with parameter channel          | max. 16                                 |
| Number of branch terminals with remote bus branch | max. 3                                  |
| Module classification                             | INTERBUS master                         |

### Direct I/Os

|                                    |                              |
|------------------------------------|------------------------------|
| Output name                        | Digital outputs              |
| Number of outputs                  | 4                            |
| Connection method                  | 2, 3, 4-wire                 |
| Maximum output current per channel | 500 mA                       |
| Input name                         | Digital inputs               |
| Number of inputs                   | 8                            |
| Connection method                  | Inline potential distributor |
| Description of the input           | EN 61131-2 type 1 NPN/PNP    |

### IEC 61131 runtime system

|                            |                                    |
|----------------------------|------------------------------------|
| Programming tool           | PC Worx/PC Worx Express            |
| Processing speed           | 1.5 ms (1 K mix instructions)      |
|                            | 90 µs (1 K bit instructions)       |
| Program memory             | 256 kByte (21 K instructions (IL)) |
| Mass storage               | 256 kByte                          |
| Retentive mass storage     | 8 kByte (NVRAM)                    |
| Number of data blocks      | depends on mass storage            |
| Number of timers, counters | depends on mass storage            |
| Number of control tasks    | 8                                  |
| Realtime clock             | Yes                                |

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## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27240490 |
| eCl@ss 4.1 | 27240490 |
| eCl@ss 5.0 | 27242208 |
| eCl@ss 5.1 | 27242208 |
| eCl@ss 6.0 | 27242208 |
| eCl@ss 7.0 | 27242208 |
| eCl@ss 8.0 | 27242207 |

### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC001423 |
| ETIM 4.0 | EC000236 |
| ETIM 5.0 | EC000236 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 43172015 |
| UNSPSC 7.0901 | 43201404 |
| UNSPSC 11     | 43172018 |
| UNSPSC 12.01  | 43201404 |
| UNSPSC 13.2   | 43201404 |

## Approvals

### Approvals

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#### Approvals

UL Listed / cUL Listed / UL Listed / cUL Listed / DNV / RINA / GL / GL-SW / BSH / LR / GL / DNV / RINA / GL-SW / BSH / BV / cULus Listed / GL

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#### Ex Approvals

ATEX / ATEX / UL Listed / cUL Listed / UL Listed / cUL Listed / cULus Listed

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#### Approvals submitted

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#### Approval details

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## Approvals

UL Listed 

cUL Listed 

UL Listed 

cUL Listed 

DNV

RINA

GL

GL-SW

BSH

LR

GL

DNV

RINA


GL-SW

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### Approvals

BSH

BV

cULus Listed 

GL



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- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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