

## Controller - ILC 200 IB-PAC - 2862288

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Inline controller, complete with accessories (connector and labeling field). The controller is installed instead of a standard Inline bus coupler. It connects the station to the higher-level INTERBUS network in the same way as a bus coupler

### Product description

With the Inline Control CPU, the Inline station is transformed into a modular compact controller. The Inline controller is installed instead of the standard Inline bus terminal module. The Inline Control connects the station to the higher-level network, just like a bus terminal module. The integrated control functions can be programmed according to IEC 61131-3. These functions permit distributed and independent control of the Inline installation system. Fast inputs and outputs ensure short response times.

Use of the Inline controller or other Remote Field Controllers permits to set up pre-tested mechanical and electrical units that can be combined as desired to form a complete solution. By combining tested mechanical, electrical, I/O device and control program functional units, planning, installation and startup times are considerably reduced. Systems can also be expanded in a flexible manner by following this principle.

#### Programming with PC WORX

The Inline controller is programmed with PC WORX automation software. The programs are created using the international IEC 61131-3 standard. They are downloaded either over the INTERBUS interface or over the local RS-232 interface. Programs and configuration data are stored in the integrated flash memory in a non-volatile way. 8 Kbytes of non-volatile (NV)RAM is available for the remanent storage of variables and flags.

### Product Features

- ✓ Fast inputs for interrupt processing, event counting, and period measurement
- ✓ 24 V high-speed outputs for pulse width modulation



### Key commercial data

|                                      |           |
|--------------------------------------|-----------|
| Packing unit                         | 1 pc      |
| Weight per Piece (excluding packing) | 560.0 GRM |
| Custom tariff number                 | 85371091  |
| Country of origin                    | Germany   |

### Technical data

#### Note

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

### Dimensions

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## Technical data

### Dimensions

|        |          |
|--------|----------|
| Width  | 109.8 mm |
| Height | 140.5 mm |
| Depth  | 71.5 mm  |

### Ambient conditions

|  |  |
|--|--|
| Degree of protection                     | IP20   |
| Ambient temperature (operation)          | 0 °C ... 55 °C   |
| Ambient temperature (storage/transport)  | -25 °C ... 75 °C                                       |
| Permissible humidity (operation)         | 5 % ... 85 % (non-condensing)                          |
| Permissible humidity (storage/transport) | 5 % ... 85 % (non-condensing)                          |
| Air pressure (operation)                 | 70 kPa ... 108 kPa (up to 3000 m above sea level)      |
| Air pressure (storage/transport)         | 66 kPa ... 108 kPa (up to 3500 m above mean sea level) |
| Shock                                    | 25g, Criterion 1, according to IEC 60068-2-27          |
| Vibration (operation)                    | 2g, criterion 1 according to IEC 60068-2-6             |

### Control system

|                  |                         |
|------------------|-------------------------|
| Programming tool | PC WORX                 |
| Diagnostics tool | DIAG+ from version 1.14 |

### Mechanical design

|        |       |
|--------|-------|
| Weight | 320 g |
|--------|-------|

### Data interfaces

|                    |  |
|--------------------|--|
| Interface          | INTERBUS local bus (master)              |
| Connection method  | Inline data jumper                       |
| Transmission speed | 500 kBaud / 2 MBaud umschaltbar          |
| Interface          | Higher-level INTERBUS remote bus (slave) |
| Connection method  | Inline shield connector                  |
| Interface          | Parameterization/operation/diagnostics   |
| Connection method  | RS-232-C, 6-pos. MINI-DIN socket (PS/2)  |
| Transmission speed | 19200 Baud                               |

### Power supply

|   |  |
|---|--|
| Power supply connection   | 8-pos. Inline connector  |
| Typical current consumption   | 153 mA (no local bus device connected during idling, bus inactive) |
| Supply voltage  | 24 V DC  |
| Supply voltage range  | 19.2 V DC ... 30 V DC  |
| Residual ripple   | ±5 %   |
| Power dissipation   | <p></p>  |
| Max. total permissible current consumption of all I/O terminal blocks | Communications power (7,5 V DC) ≤ 2 A DC                           |

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## Technical data

### Power supply

|  |                                      |
|--|--------------------------------------|
|  | Analog supply (24 V DC) $\leq$ 0.5 A |
|--|--------------------------------------|

### Fieldbus function

|   |                                       |
|---|---------------------------------------|
| Amount of process data                            | max. 4096 Bit (INTERBUS-Master)       |
|   | 160 Bit (INTERBUS-Slave)              |
| Number of parameter data                          | max. 8 Byte (configurable)            |
| Number of supported devices                       | max. 512                              |
| Number of local bus devices that can be connected | max. 63 (observe current consumption) |
| Number of devices with parameter channel          | max. 62                               |
| Number of branch terminals with remote bus branch | max. 15                               |
| Module classification                             | INTERBUS master                       |
| Processing speed                                  | 1.3 ms                                |

### Direct I/Os

|                                    |  |
|------------------------------------|--|
| Input name                         | Digital inputs                                 |
| Number of inputs                   | 4  |
| Connection method                  | Inline potential distributor                   |
| Description of the input           | Interrupt input, fast counter, pulse generator |
| Output name                        | Digital outputs                                |
| Number of outputs                  | 2  |
| Connection method                  | 2, 3, 4-wire                                   |
| Maximum output current per channel | 500 mA   |
| Number of pulse direction outputs  | 2  |
| Limit frequency                    | 20 kHz   |
| Number of inputs                   | 4  |
| Input frequency                    | 40 kHz   |

### IEC 61131 runtime system

|                            |   |
|----------------------------|---|
| Programming tool           | PC WORX                                 |
| Processing speed           | 1.3 ms (1 K bit instructions)           |
| Program memory             | typ. 384 kByte (32 K instructions (IL)) |
| Mass storage               | 330 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                                       |

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## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27250203 |
| eCl@ss 4.1 | 27240601 |
| eCl@ss 5.0 | 27242215 |
| eCl@ss 5.1 | 27242207 |
| eCl@ss 6.0 | 27242207 |
| eCl@ss 7.0 | 27242207 |

### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000236 |
| ETIM 3.0 | EC000236 |
| 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 Recognized / cUL Recognized / GOST / cUL Recognized / GOST / cULus Recognized

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#### Ex Approvals

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#### Approvals submitted

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#### Approval details

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| UL Recognized  |
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## Approvals

cUL Recognized

GOST

cUL Recognized

GOST

cULus Recognized

## Drawings

Dimensioned drawing

