

# ILC 150 ETH - Controller



2985330

<https://www.phoenixcontact.com/in/products/2985330>

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Inline Controller with Ethernet interface for coupling to other controllers and systems, with programming options according to IEC 61131-3, complete with plug and labeling field.

## Product description

With the ILC 150 ETH, the highly modular Inline Controller range from Phoenix Contact has been extended to include a high-performance 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 in 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 through 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.

## Your advantages

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

## Commercial data

Item number	2985330
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DRA
Product key	DRAAAA
Catalog page	Page 19 (AX-2011)
GTIN	4046356096409
Weight per piece (including packing)	368 g
Weight per piece (excluding packing)	343.6 g
Customs tariff number	85371091
Country of origin	DE

## Technical data

### Product properties

Product type	Controller
Product family	Inline
Type	Inline format with alignable I/Os

### Display

Diagnostics display	No
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### System properties

Retentive data storage	8 kByte (NVRAM)
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### IEC 61131 runtime system

Program memory	typ. 256 kByte
Data storage system	256 kByte
Number of control tasks	8

### INTERBUS-Master

Amount of process data	max. 4096 bit (INTERBUS)
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 supported branch terminals with remote bus branch	max. 3

### Function

Diagnostics display	No
Controller redundancy	No

### System requirements

Engineering tool	PC Worx
	PC Worx Express
Configuration tool	Config+ Version 1.01 or later
Diagnostics tool	DIAG+
Runtime system	eCLR
Application interface	OPC

### Electrical properties

Transmission medium	Copper
Maximum power dissipation for nominal condition	max. 5 W

### Supply

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

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	voltage supply)
Typical current consumption	210 mA

## Real-time clock

Realtime clock	Yes
Description realtime clock	integrated (rechargeable battery buffered)

## Potentials

Supply voltage	7.5 V DC $\pm$ 5 %
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## Potentials

Supply voltage	24 V DC -15 % / +20 %
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## Potentials

Supply voltage	24 V DC -15 % / +20 % (in accordance with EN 61131-2)
Current draw	max. 8 A DC

## Potentials

Supply voltage	24 V DC -15 % / +20 % (in accordance with EN 61131-2)
Current draw	max. 8 A DC

## Input data

### Digital

Input name	Digital inputs
Number of inputs	8
Connection method	Inline potential distributor
Connection technology	2-, 3-, 4-conductor

## Output data

### Digital

Output name	Digital outputs
Connection method	Spring-cage connection
Connection technology	2-, 3-, 4-conductor
Number of outputs	4
Maximum output current per channel	500 mA
Output name	Digital outputs
Connection method	Spring-cage connection
Connection technology	2-, 3-, 4-conductor
Number of outputs	4
Maximum output current per channel	500 mA

## Connection data

### Inline connector

Connection method	Spring-cage connection
Conductor cross section, rigid	0.08 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>

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Conductor cross section, flexible	0.08 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section AWG	28 ... 16

## Interfaces

### INTERBUS local bus (master)

Number of interfaces	1
Connection method	Inline data jumper
Transmission speed	500 kBaud / 2 MBaud (can be switched)

### Parameterization/operation/diagnostics

Bus system	RS-232
Number of interfaces	1
Connection method	6-pos. MINI DIN socket (PS/2)
Transmission speed	max. 115.2 kbps
Transmission physics	Copper
No. of channels	1

### Ethernet 10Base-T/100Base-TX

Bus system	RJ45
Number of interfaces	1
Connection method	RJ45 jack
Transmission speed	10/100 Mbps
No. of channels	1

## Dimensions

Width	80 mm
Height	119.8 mm
Depth	71.5 mm

## Material specifications

Color	green
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## Environmental and real-life conditions

### 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)
Shock	25g, Criterion 1, according to IEC 60068-2-27
Vibration (operation)	5g
Air pressure (operation)	70 kPa ... 106 kPa (up to 3000 m above sea level)
Air pressure (storage/transport)	70 kPa ... 106 kPa (up to 3000 m above sea level)

## Mounting

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Mounting type	DIN rail mounting
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## Approvals

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**EAC**

Approval ID: RU\*DE\*08.B.00529/19



**BV**

Approval ID: 20989/B2\_BV



**UL Listed**

Approval ID: FILE E 140324



**cUL Listed**

Approval ID: FILE E 140324



**cUL Listed**

Approval ID: FILE E 199827



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## Classifications

### ECLASS

ECLASS-11.0	27242207
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### UNSPSC

UNSPSC 21.0	39122114
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## Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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