

# ILC 130 ETH - Controller



2988803

<https://www.phoenixcontact.com/in/products/2988803>

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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

The ILC 130 ETH supplements the highly modular range of Inline controllers from Phoenix Contact with a powerful compact controller. This controller further extends the possible area of application of Inline controllers to smaller applications. The compact controller can be adapted to the relevant requirements in a highly modular manner thanks to direct integration in the Inline automation system. Using its integrated Ethernet interface, it can be parameterized and programmed in accordance with IEC 61131 using the PC Worx automation software; it can also exchange data with OPC servers simultaneously and communicate with TCP/IP-compatible devices.

The Inline Controller range of controllers covers a wide performance spectrum. Users can find the right controller for their application, from a starter version up to a high end controller. In the portfolio, users can choose between controllers with different computing capacities, with or without PROFINET controllers and with or without GL approval.

## Your advantages

- Flash file system
- Complete INTERBUS master (4096 I/O points)
- Integrated web server for visualization with WebVisit
- FTP server
- 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	2988803
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DRA
Product key	DRAAAA
Catalog page	Page 18 (AX-2011)
GTIN	4046356340120
Weight per piece (including packing)	356.07 g
Weight per piece (excluding packing)	338 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	192 kByte
Data storage system	192 kByte
Number of control tasks	8

### INTERBUS-Master

Amount of process data	max. 2048 bit (INTERBUS)
Number of supported devices	max. 63
Number of local bus devices that can be connected	max. 63 (observe current consumption)
Number of devices with parameter channel	max. 8

### 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 voltage supply)

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

## 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>
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
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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 (RAL 6021)
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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

Mounting type	DIN rail mounting
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## Classifications

### ECLASS

ECLASS-11.0

27242207

### UNSPSC

UNSPSC 21.0

39122114

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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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