

Controller - ILC 170 ETH 2TX - 2916532

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

Product description

With the ILC 170 ETH 2TX, 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 interfaces enable 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 IO controllers, and with or without GL approval.

Why buy this product

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



Key commercial data

Packing unit	0
Minimum order quantity	1
Catalog page	Page 19 (AX-2011)
GTIN	 4 046356 174107
Custom tariff number	85371091
Country of origin	GERMANY

Technical data

Control system

Programming tool	PC Worx/PC Worx Express
Diagnostics tool	DIAG+

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Technical data

Mechanical design

Height	119.8 mm
Width	80 mm
Depth	71.5 mm
Weight	295 g
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)
Vibration (operation)	5 g
Shock	25g, Criterion 1, according to IEC 60068-2-27

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 female connector (PS/2), Ethernet 10/100 (RJ45)
Transmission speed	max. 115,2 kBit/s
Interface	Ethernet 10Base-T/100Base-TX
Connection method	RJ45 female connector
Transmission speed	10/100 MBit/s

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 %

INTERBUS data

Type	INTERBUS master
Number of Inline terminals which can be connected	63
Note on the number of Inline terminals which can be connected	observe current consumption
Number of devices with parameter channel (PCP)	24
Number of supported devices	128
Number of I/O nodes	4096

Direct I/Os

Input name	Digital inputs
Number of inputs	8
Connection method	Inline potential distributor

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Technical data

Direct I/Os

Output name	Digital outputs
Number of outputs	4
Connection method	2, 3, 4-wire
Maximum output current per channel	500 mA

IEC 61131 runtime system

Programming tool	PC Worx/PC Worx Express
Processing speed	1.5 ms (1 K mix instructions)
Processing speed	90 µs (1 K bit instructions)
Data memory	512 kByte
Retentive data memory	48 kByte (NVRAM)
Number of data blocks	(depends on data memory)
Number of timers, counters	(depends on data memory)
Number of control tasks	8
Realtime clock	Yes

Classifications

eclass

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

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

Approvals

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

Ex Approvals

Approvals submitted

Approval details

UL Listed 
cUL Listed 
LR
GL
DNV
ABS
RINA
GL-SW
BSH
UL Listed 
cUL Listed 

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Approvals

LR

GL

BV

BV

DNV

ABS

RINA

GL-SW

BSH

cUL Listed 

GL

Accessories

Accessories

Cable/conductor

Connecting cable - PRG CAB MINI DIN - 2730611



Connecting cable, for connecting the controller to a PC (RS-232) for PC Worx, 3 m in length

Memory

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Accessories

Memory - SD FLASH 256MB - 2988120



Program and configuration memory, plug-in, 256 MB

Memory - SD FLASH 256MB APPLIC A - 2988816



Program and configuration memory, plug-in, 256 Mbytes with license key for function block libraries, e.g., for: SNMP, SQL, wireless, motion functions, etc.

Memory - SD FLASH 256MB PDPI PRO - 2700552



Program and configuration memory, plug-in, 256 MB with license key for licensing the PDPI - Pro function block for precise multi-channel controllers with self-optimization, additional functions: e.g., setpoint processing, for heating and cooling functions.

Memory - SD FLASH 256MB PDPI BASIC - 2700551



Program and configuration memory, plug-in, 256 MB with license key for licensing the PDPI - BASIC function block for precise multi-channel controllers with self-optimization, e.g., for heating and cooling functions or hydraulic movements.

Memory - SD FLASH 2GB - 2988162



Program and configuration memory

Memory - SD FLASH 2GB APPLIC A - 2701190



Program and configuration memory, plug-in, 2 Gbytes with license key for function block libraries, e.g., for: SNMP, SQL, wireless, motion functions, etc.

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Accessories

Software

Software - AX OPC SERVER - 2985945



AX OPC SERVER, communication interface for OPC-capable visualization with PC WORX-based controls.

Software - AX+ BASIC - 2985068



Software CD for FDT container for integrating device DTMs (free download)

Software - AX DTM LIB - 2988065



DTM library

Necessary add-on products

Memory - SD FLASH 256MB - 2988120



Program and configuration memory, plug-in, 256 MB

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Program and configuration memory

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