

ILC 150 GSM/GPRS


Order No.: 2916545



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

Commercial data

| | |
|--------------------------|--|
| EAN |  4 046356 174091 |
| Pack | 1 pcs. |
| Customs tariff | 85371091 |
| Product key | 11221 |
| country of origin | DE |
| Catalog page information | Page 20 (AX-2011) |

Product notes

WEEE/RoHS-compliant since:
07/03/2007



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Product description

The ILC 150 GSM/GPRS combines the options of controllers in performance class 100 with wireless communication via mobile phone networks. A GSM/GPRS modem is integrated in the controller. This enables SMS messages to be sent and received and supports packet-oriented (IP) communication via GPRS.

The controller itself offers 16 digital inputs and 4 digital outputs for various control tasks. The 512 KB program memory and 512 KB data memory complete the functions of the controller, thus allowing plenty of space to accommodate larger applications as well.

The Inline Controller (ILC) range covers a wide performance spectrum. From entry-level versions through to high-end controllers, users can choose the right controller for their application.

Technical data

Control system

| | |
|------------------|-------------------------|
| Programming tool | PC WORX 5 |
| Diagnostics tool | DIAG+ from version 1.14 |

Mechanical design

| | |
|--|--|
| Height | 119.8 mm |
| Width | 85 mm |
| Depth | 71.5 mm |
| Weight | 285 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 |

Data interfaces

| | |
|-------------------|--|
| Interface | INTERBUS local bus (master) |
| Connection method | Inline data jumper |
| Interface | Ethernet 10Base-T/100Base-TX |
| Connection method | RJ45 female connector |
| Interface | Parameterization/operation/diagnostics |
| Connection method | Ethernet 10/100 (RJ45) |
| Interface | GSM / GPRS |
| Connection method | SIM card, SMA antenna connection |

Power supply

| | |
|-----------------------------|---|
| Typical current consumption | 210 mA |
| Max. current consumption | 860 mA (360 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 | $\pm 5 \%$ |
|-----------------|------------|

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) | max. 16 |
| Number of supported devices | max. 128 |
| Number of I/O nodes | max. 4096 |
| Battery | Integrated (rechargeable battery buffered) |
| Number of control tasks | 8 |
| Number of timers, counters | (depends on data memory) |
| Number of data blocks | (depends on data memory) |
| Data memory | 512 kByte |
| Retentive data memory | 48 kByte (NVRAM) |

IEC 61131 runtime system

| | |
|----------------------------|--|
| Programming tool | PC WORX 5 |
| Processing speed | 1.5 ms (1 K mix instructions) 90 μ s (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 |

Inline potential routing

| | |
|--------------------------------|---|
| Communications power U_L | 7.5 V DC $\pm 5\%$ |
| Power supply at U_L | max. 0.8 A DC (observe derating) |
| Main circuit supply U_M | 24 V DC -20% / +20% (in accordance with EN 61131-2) |
| Power supply at U_M | max. 8 A DC (Sum of $U_M + U_S$) |
| Current consumption from U_M | max. 8 A DC |
| Segment supply voltage U_S | 24 V DC -20% / +20% (in accordance with EN 61131-2) |
| Power supply at U_S | max. 8 A (Sum of $U_M + U_S$) |

| | |
|--------------------------------|-----------------------------|
| Current consumption from U_s | max. 8 A DC |
| I/O supply voltage U_{ANA} | 24 V DC -15% / +20% |
| Power supply at U_{ANA} | 0.5 A DC (observe derating) |

Accessories

| Item | Designation | Description |
|-----------------|----------------|---|
| Antennas | | |
| 2313135 | PSI-GSM-QB-ANT | GSM Quadband antenna, with omnidirectional characteristic, 2 m antenna cable with SMA round connector |
| Software | | |
| 2985945 | AX OPC SERVER | AX OPC SERVER, communication interface for OPC-capable visualization with PC WORX-based controls. |

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