

# LCP1100

## Product datasheet

### ■ Description

Lahoco Core Pro 1100 (**LCP1100**) is a logical controller with multiprotocol gateway designed to run LAHOCO HOME or LAHOCO ENERGY. The device can be mounted on a DIN rail for easy electrical panel integration. **LCP1100** is the most suitable solution for operating LAHOCO in a new building construction or for an electrical renovation.



RS485

M-Bus



### ■ Commercial information

|             |                                                              |
|-------------|--------------------------------------------------------------|
| Art. 400004 | Lahoco Core Pro Server LCP1100 DIN                           |
| Art. 800300 | Antenna with suction cup 868MHz 5dBi SMA and 3m cable length |
| Art. 500011 | M-Bus to RS485 Converter up to 4 slave                       |
| Art. 550003 | KNX TP/IP Interface 731                                      |
| Art. 650000 | KNX power supply 640mA                                       |

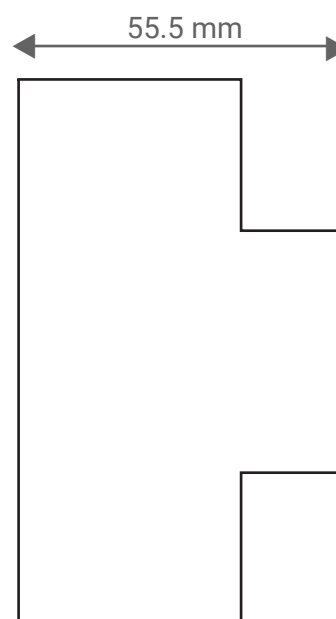
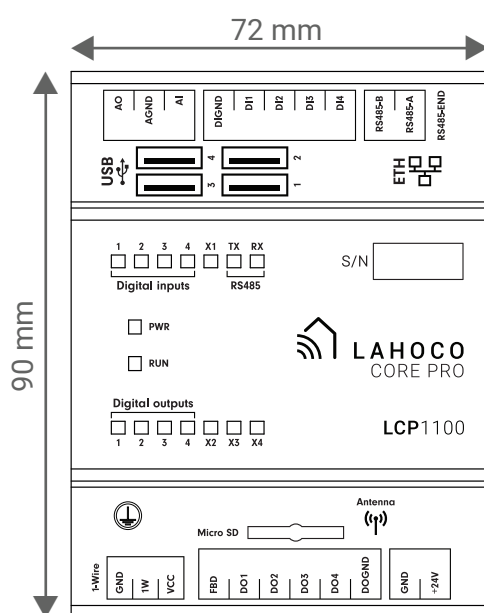
### ■ Features

- ☐ Build for LAHOCO HOME or LAHOCO ENERGY
- ☐ Integrated EnOcean Receiver 868 Mhz
- ☐ 4x Digital Inputs
- ☐ 4x Digital Outputs
- ☐ 1x Analog Input
- ☐ 1x Analog Output
- ☐ 1x RS485
- ☐ M-Bus<sup>1)</sup>
- ☐ KNX<sup>2)</sup>

<sup>1)</sup> Need an optional converter. Art. 500011

<sup>2)</sup> Need a optional TCP/IP Interface. Art. 550003

### ■ Dimensions



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### Communication

|                          |                          |
|--------------------------|--------------------------|
| Ethernet                 | 1x 1Gbit Ethernet        |
| Wi-Fi                    | IEEE 802.11b/g/n         |
| Serial channels          | 1x RS485                 |
| RS485 Transmission speed | 134 .. 115200 baud       |
| RS485 Galvanic isolation | Yes                      |
| RS485 Output voltage Vcc | 5V                       |
| RS485 Max current Vcc    | 50 mA                    |
| USB                      | 2x USB 2.0<br>2x USB 3.0 |

### Digital inputs

|                                           |                                                       |
|-------------------------------------------|-------------------------------------------------------|
| Number of inputs x groups                 | 4 x 1                                                 |
| Common connector                          | DIGND                                                 |
| Galvanic isolation                        | Yes                                                   |
| Functions of inputs                       | Counter (w/o memory),<br>signalization, direct switch |
| Max. frequency of counter input<br>signal | 10 kHz                                                |
| Input voltage of log. 0                   | Max. 3 VDC                                            |
| Input voltage of log. 1                   | Min. 7 VDC                                            |
| Max. input voltage                        | 35 VDC                                                |
| Input resistance                          | 6 200 $\Omega$                                        |
| Delay 0->1/1->0                           | 20 $\mu$ s / 60 $\mu$ s                               |

### Digital outputs

|                                    |                                    |
|------------------------------------|------------------------------------|
| Number of outputs x groups         | 4 x 1                              |
| Common connector                   | DOGND                              |
| Galvanic isolation                 | No                                 |
| Type of output                     | NPN transistor (open<br>collector) |
| Optional functions                 | PWM                                |
| Switchable voltage                 | 5 - 50 VDC                         |
| Switchable current continual/pulse | 750 mA / 1 A                       |
| Max. total current DO1 - DO4       | 1 A                                |
| PWM max. frequency                 | 200 kHz                            |
| PWM max. resolution                | 16 bits                            |

### Dimensions and weight

|            |                                         |
|------------|-----------------------------------------|
| Dimensions | 72 x 90 x 55.5 mm<br>(without DIN rail) |
| Weight     | 191 g                                   |

### Standards compliance

|      |             |
|------|-------------|
| EMC  | 2014/30/EU  |
| RED  | 2014/53/EU  |
| RoHS | 2015/863/EU |
| WEEE | 2012/19/EU  |

### Analog inputs

|                               |                   |
|-------------------------------|-------------------|
| Number of inputs x groups     | 1 x 1             |
| Common connector              | AGND              |
| Available functions           | AO 0-10 V 0-20 mA |
| Galvanic isolation            | No                |
| Max. voltage/current          | 10 V / 20 mA      |
| Resolution                    | 12 bits           |
| Conversion speed              | 1 ms              |
| Resistance measurement method | 2 wire            |

### Analog outputs

|                               |                                                                               |
|-------------------------------|-------------------------------------------------------------------------------|
| Number of outputs x groups    | 1 x 1                                                                         |
| Common connector              | AGND                                                                          |
| Available functions           | AO 0-10 V / 0-20 mA<br>Resistance measure:<br>0-2 k $\Omega$ , Ni1000, Pt1000 |
| Galvanic isolation            | No                                                                            |
| Max. voltage/current          | 10 V / 20 mA                                                                  |
| Resolution                    | 12 bits                                                                       |
| Conversion speed              | 1 ms                                                                          |
| Resistance measurement method | 2 wire                                                                        |

### Power supply

|                             |                       |
|-----------------------------|-----------------------|
| Rated voltage - SELV        | 24 VDC                |
| Power consumption           | Typ. 3 W<br>Max. 12 W |
| Reverse polarity protection | Yes                   |

### Installation and operating conditions

|                                   |                                           |
|-----------------------------------|-------------------------------------------|
| Operating temperature             | 0°C ... +55°C<br>relative humidity        |
| Storing temperature               | -25°C ... +70°C                           |
| Degree of protection IP (IEC 529) | IP20                                      |
| Installation                      | On 35mm DIN rail into<br>distribution box |
| Connection                        | Pluggable terminal<br>blocks              |
| Wire gauge                        | Max. 2.5 mm <sup>2</sup>                  |



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