

24 V
VIRTUAL
ENCODER

SAFE

SETTING

VERSATILE

NEW
CONCEPT

INNOVATIVE

Control panels
for 1 or 2
24 V motors
for swing gates

Ditec **LCU**

Ditec LCU

Ditec LCU is the range of multifunction control panels for one or two 24 Vdc motors for swing gates.

Available in two versions: **LCU30H for motors up to 6 A** and **LCU40H for motors up to 12 A**.

Both panels make it easy to use the display to configure position and speed at any time, allowing adjustment for acceleration, deceleration, start time, slowdown distance and approach speed during opening and closing.

The gate can now be opened and closed via Bluetooth with a smartphone app, and access credentials are easily managed (with an optional accessory).

Ditec LCU30H

For motors up to 6 A



two-digit display and navigation buttons for easy configuration and diagnostics

housing for **plug-in control and safety cards** (self-testing safety edges, magnetic loop motion detector, Bluetooth gate opening module and access credential management)

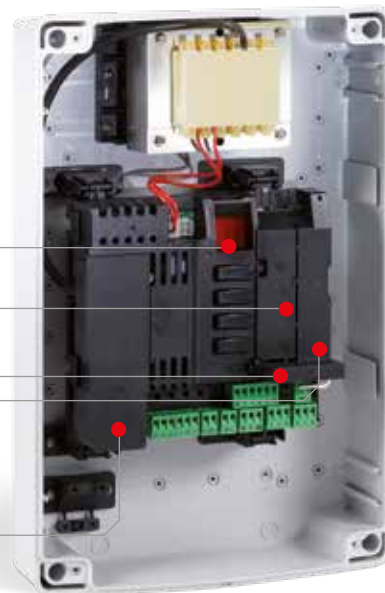
433/868 MHz radio receiver module, removable and swappable

removable memory to save operating settings for duplication on another control unit, and for programming remote controls

Electronic card with plastic protection, can be removed if supplementary accessories are installed

Ditec LCU40H

For motors up to 12 A



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SETTING

SAFETY FIRST

thanks to the virtual encoder

- constant monitoring of impact forces and immediate obstacle detection ensuring that the electromechanical actuator is stopped or the motion is inverted (if configured) when obstacles are detected
- precise speed setting with the ability to configure slowing and start time, preventing mechanical stress during closing or opening
- possibility to comply with operating impact values without having to fit active sensitive edges
- compliant with standard 13849 with or without installation of active edges

VERSATILE

control panel

- self-learning procedure made easier by the display and navigation buttons. Operating parameters are configured in just two steps
- in the event of a temporary power outage, there is a possibility of connecting to batteries, to guarantee continued operation and enable the system to carry out a large number of movements while the electricity supply is being restored
- partial opening control for pedestrian access, via remote control or dedicated control (e.g. key switch)

FULL COMPLIANCE WITH EU DIRECTIVES AND STANDARDS

- 2014/30/EU - EMCD - Electromagnetic Compatibility Directive
- 2014/53/EU - RED - Radio Equipment Directive
- 2006/42/EC - Machines Directive (Annex II-B; Annex II-A; Annex I-Chapter 1)
- Harmonised EU Standards: EN ISO 13849-1 and EN ISO 13849-2 (certified by TÜV Rheinland only for LCU40H); EN 60335-1; EN61000-6-3; EN61000-6-2; ETSI EN 300 220-1; ETSI EN 300 220-2; ETSI EN 301 489-1; ETSI EN 301 489-3



New features for you and your customers

NUMEROUS ADVANTAGES FOR YOUR CUSTOMERS

technologically advanced solutions make the system easy to sell



GREEN Mode

immediate savings can be made thanks to control over standby consumption

In most residential installations with medium use, the control panel is in standby around 90% of the time and active only 10% of the time.

The new GREEN mode feature, already included in LCU40H, was designed to reduce electricity consumption during standby, offering immediate savings to electricity bills.



HYBRID TECHNOLOGY to optimize energy use

The new battery controller (optional) not only adjusts the battery charge, but has additional features: it constantly determines whether to power the system with a solar-rechargeable battery or whether it is necessary to use electricity. This makes it possible to install systems powered exclusively with solar energy, in stand alone mode.



SIMPLE AND SECURE ACCESS

via smartphone and access credentials

With Entrematic Smart Connect, you can manage the automation through smartphone, tablet and pc, locally or remotely, via Wi-Fi or Ethernet. Open, close and request the status of your access, configure new users and integrate HD real-time video.

With Secure Virtual Access (SVA) entrances can be managed via Bluetooth, enabling credentials that give users permanent or occasional access, according to configurable time bands which can be modified at any time.



CONFIGURE WITH EASE on LCU40H

- the panel can be completely removed, for improved convenience during wiring, better viewing of the display and simpler insertion of batteries in the back
- dedicated opening, closing and stop contacts; contact for automatic closing management; contact to indicate gate status



AND IF YOU CAN'T resolve a problem

- integrated diagnostics with counters and history for the most recent alarms, visible on the panel display (LCU30H and LCU40H)
- in-depth diagnostics with registration of all events on a micro SD card (on LCU40H). Data can be displayed and precisely analysed with software**.

Micro SD slot for extended datalogging on LCU40H



**www.ditecautomations.com/download

SPECIFIC ACCESSORIES



- Card** for Bluetooth control using a smartphone app and access credential management



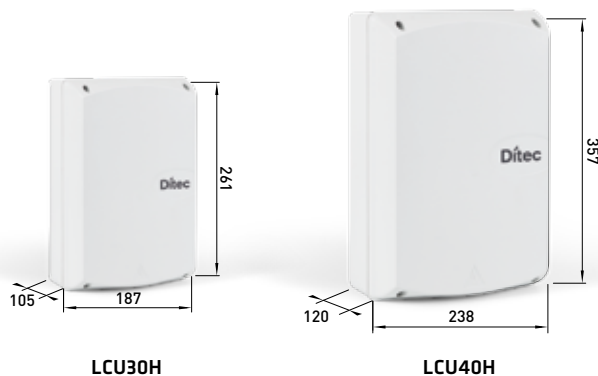
- Energy controllers** to manage batteries and solar energy production, complete with assembly brackets



- 868 MHz receiver module**



- Batteries** complete with installation BOX
 - 2 x Batteria 2 Ah + small IP55 box
 - 2 x Batteria 6.5 Ah + large IP55 box



MAIN FUNCTIONS OF THE SYSTEM

DESCRIPTION	LCU30H	LCU40H
Control panel	for 1 or 2 24 Vdc motors with incorporated radio decoder and 433 MHz receiver module	for 1 or 2 24 Vdc motors with incorporated radio decoder and 433 MHz receiver module
433MHz --> 868MHz interchangeable receiver module	■	■
Mains power supply	230 Vac - 50/60 Hz	230 Vac - 50/60 Hz
Batteries	■ (with optional accessory)	■ (with optional accessory)
Motor power supply	24 Vdc / 2 x 6 A	24 Vdc / 2 x 12 A
Compatible motors	Ditec PWR25H, Ditec PWR35H, Ditec ARCBH, Ditec FACIL	Ditec PWR25H, Ditec PWR35H, Ditec PWR50H/HV/HR, Ditec ARCBH/1BH, Ditec FACIL, Ditec CUBIC, Ditec DOR
Accessories power supply	24 Vdc / 0.3 A direct - 0.5 A max.	24 Vdc / 0.5 A direct
Electro-mechanical lock	■	■
Flashing light	24 Vdc	24 Vdc
Gate-open warning light	Shared with elettro-mechanical lock or flashing light	■
Limit-switch provision	■	■
Virtual encoder (speed and deceleration control)	■	■
Settings adjustment	from display	from display
Braking / Slowing down	■	■
Soft Start / Soft Stop	■	■
Time setting	■	■
Open control		■
Partial opening control	■	■
Close control		■
Stop control		■
Inching control	■	■
Hold-to-run control	■	■
Adjustable automatic closing time	■	■
Contact for automatic closing management		■
Emergency stop	■	■
Safe closing (inversion)	■	■
Safety test (for self-testing safety devices)	■	■
NIO - Antifreeze system	■	■
Green mode (standby consumption <1 W)		■
Integrated datalogging (counters and recent alarm history)	■ (can be viewed on display)	■ (can be viewed on display and on PC with SW Amigo)
Extended datalogging with micro SD (in-depth records for every event)		■ (can be viewed on PC with SW Amigo)
FW update through USB/Micro SD		■
Operating temperature	-20°C / +55°C (-35°C / +55°C with NIO enabled)	-20°C / +55°C (-35°C / +55°C with NIO enabled)
Protection rating	IP55	IP55
Product dimensions (mm)	187x261x105	238x357x120