



Local Controller - LAU400

Overview

The LAU400, the 4th generation IDtech local access control terminal, plays a key role in managing the communication between an IDtech master controller (M.C. or R.C.P.) and the various door peripherals (readers, pushbuttons, locking devices, etc.). It controls up to two readers: entry/exit on one door, or two entry-only doors.

To ensure an optimum and secure communication, the LAU400 supports the latest communication protocols (OSDP and SSCP) and most current identification technologies. It easily adapts to your constantly evolving access control needs as updates and configuration changes can be made remotely, via the master controller.

The LAU400 supports all IDtech readers and most third-party readers, as well as specific readers including QR-code, biometric, licence plate or long-distance readers. It is also 100 % compatible with the entire IDtech hardware range (UT 3+) and is fully integrated in the IDtech software suite.

Features

Fonctionnalités

Controls the opening and closing of single, double, or armoured doors, security airlocks, barriers, one- or two-way automatic gates, turnstiles...

Manages and powers door accessories in 12 V (max. 4 A): contacts, electromagnets, electric door openers, magnetic strips, exit pushbuttons, emergency exit buttons, etc.

Remote connection to the LAU400 is possible via the network (configuration changes, firmware updates)

Reliability

Hardware operation control and automatic restart on system failure

Network monitoring via Unipass

Automatically resetting fuse on each power output

Overvoltage and reverse polarity protections of digital/analog inputs at 15 V

Encrypted communication with readers (if using OSDP/SSCP)

Configurations

Available in metal housing, for DIN rail mounting or as a board only

Manages up to 2 readers: entry/exit on 1 door or 2 entry-only doors

Supports all IDtech readers and most third-party readers, as well as QR-code, biometric, licence plate, and long-distance readers

Compatible with a variety of identification technologies such as iClass®, Seos™, MIFARE® Classic, DESFire® EV1/EV2/EV3

Supports the latest communication protocols such as OSDP or SSCP, as well as Wiegand and Bluetooth

4 addressable inputs to connect push buttons, door status contacts, emergency buttons or other status contacts (expandable to 12 with an additional I/O module)

4 addressable outputs to connect door locks or to give contacts to external devices such as alarm systems or intercoms (expandable to 8 with an additional I/O module)

Features

Installation

Quick and easy installation and wiring: drilling and wiring diagrams provided

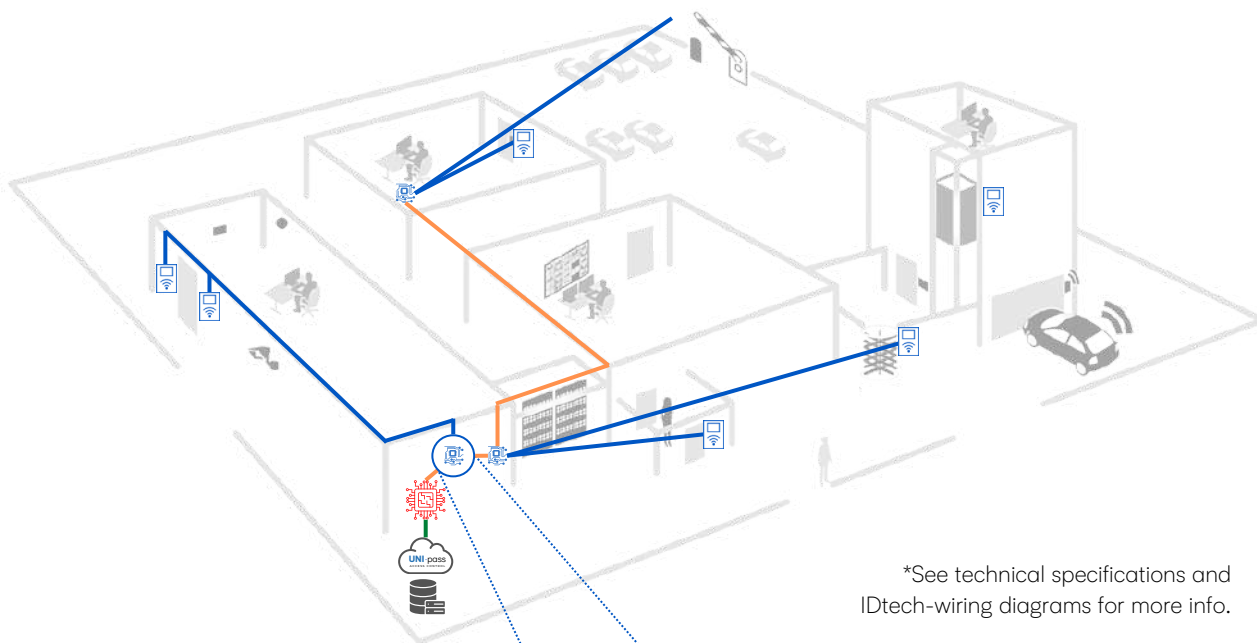
Housing with cable slots in the top edge

Connected in bus (RS 485) to the IDtech master controller (M.C./R.C.P.)

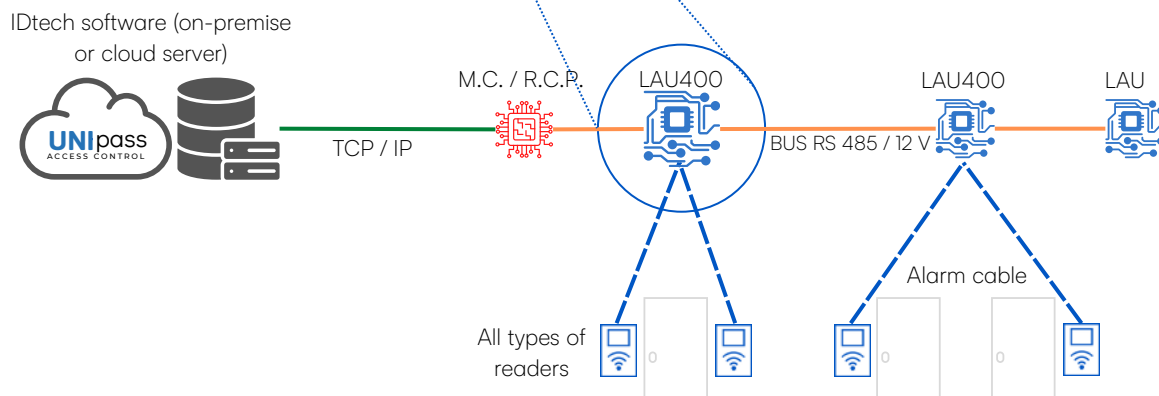
Powered by the master controller (12 V DC)

Connection to peripherals through removable connectors

System Architecture



*See technical specifications and IDtech-wiring diagrams for more info.



Technical Specifications (1/2)

Hardware

Version	UT 4
Dimensions (L x H x D)	<ul style="list-style-type: none"> Housing: 150 x 300 x 80 mm DIN: 140 x 120 x 60 mm Board: 135 x 100 x 25 mm
Weight	<ul style="list-style-type: none"> Housing: ≈1,5 kg DIN: 182 g Board: 94 g
Conformity	CE
Available options	I/O-module, Tamper switch (anti-sabotage)
Related products	Master controller (M.C./R.C.P.), RFID reader

Electrical

Input voltage	12 V (powered by the master controller)
Input range	10-15 V
Typical power consumption	160 mA with active relays at 12 V DC (excluding peripherals)
Minimum amperage	2 A (depending on peripherals)

Communication

Master controller connectivity	Bus RS 485
Number of readers	Max 2 readers (entry/exit on 1 door or 2 entry-only doors)
Reader connectivity	<ul style="list-style-type: none"> 2 ports for Wiegand or Clock/Data readers 1 port for 2 OSDP or SSCP readers 2 LEDs and 1 beeper / reader Others on request
Reader compatibility	<ul style="list-style-type: none"> All IDtech readers and most third-party readers QR-code, biometric, licence plate, and long-distance readers Identification technologies: iClass®, Seos™, MIFARE® Classic, DESFire® EV1/EV2/EV3
Communication protocols	Bluetooth, Wiegand (DO, DI, Clock/Data) and RS 485 (OSDP and SSCP)
Max. wiring distance	<ul style="list-style-type: none"> LAU400 & M.C.: The M.C. and its LAUs are ideally gathered in one place. If one or more LAUs are not, the maximum wiring distance of the RS-485 standard (1.2 km in theory) applies. LAU400 & Reader: ≈50 m in Wiegand / ≈150 m in RS 485 (OSDP, SSCP)* (*May vary depending on field realities and reader models)
I/O	<ul style="list-style-type: none"> 4 voltage-free inputs (expandable to 12 with I/O module) 4 relay outputs NO, NC (expandable to 8 with I/O module)

Technical Specifications (2/2)

Environment

Mounting	Wall mount, DIN rail
Operating temperature	0 to 60 °C
Humidity	20 to 80 % of ambient relative humidity (In option: conformal coating)

Recommandations

Technical recommendations	<ul style="list-style-type: none">• It is strongly recommended to gather the M.C. and its LAUs in one place.• All the doors of a security airlock must be controlled by the same LAU
Wiring recommendations	<ul style="list-style-type: none">• Power supply: 2x2.5 mm² LIYY / VTMB <p>*Depending on the actual wiring distance, it may be necessary to adjust the number and cross-section of the power cables.</p> <ul style="list-style-type: none">• Bus RS485: AL 2x2x0.22 mm² twisted alarm cable• Wiegand: 2x0.75 mm² + 6x0.22 mm² shielded alarm cable• OSDP: 2x0.75 mm² + 2x2x0.22 mm² twisted alarm cable• See IDtech wiring diagrams for more info.