



IP Controller RAU400

Overview

The IDtech RAU400, the 4th generation autonomous door controller of IDtech, has been designed to manage the access control of one door (entry/exit) or two doors (entry only). Equipped with an enhanced memory and a powerful processor, this controller manages access control and the actions to be taken in response to alarms (opening doors, barriers, gates, etc.) even when connection to the server is lost.

The RAU400 meets the latest industry standards to ensure optimum and secure communication with both RFID readers (OSDP and SSCP) and our access control software Unipass (AES and TLS encryption). It easily adapts to your constantly evolving access control needs as updates and configuration changes can be made remotely.

This controller 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 complete IDtech hardware range (UT 3+) and is fully integrated in the IDtech software suite.

Features

Fonctionnalités

Autonomous access control and alarm management

Works directly with readers

Supports the reader updater of the UniloQ product range

Automatic transfer of events to the server

Large memory capacity: up to 200.000 ID media (key fobs, cards...) and 30.000 events

Scheduled automatic door opening and closing

Anti-passback

Office mode

Fire control function to allow emergency evacuation

Management of door accessories related to access control (push buttons, door sensors, electric locks...)

Integrated Ethernet network module and possibility to enable AES Encryption (Unipass 6.6.3+) or encryption using TLS certificates (Unipass 8+)

Remote connection to the controller possible via the network (firmware upgrades, updating of a connected LAU400...)

Configurations

Available in metal housing (12 V and 230 V), for DIN rail mounting or as a board only

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

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

Supports Wiegand and secure communication protocols (OSDP and SSCP)

Features

Reliability

All events and parameters are stored to ensure the access control and alarm management functions are fully carried out even when the connection to the server is lost

Can be equipped with a backup power supply (B.P.S.) to ensure continuous operation in the event of a temporary power failure

Automatic data synchronisation between controller and server after a communication failure

Hardware operation control and automatic restart on system failure

Network monitoring via Unipass

Encrypted communication with readers (OSDP/SSCP)

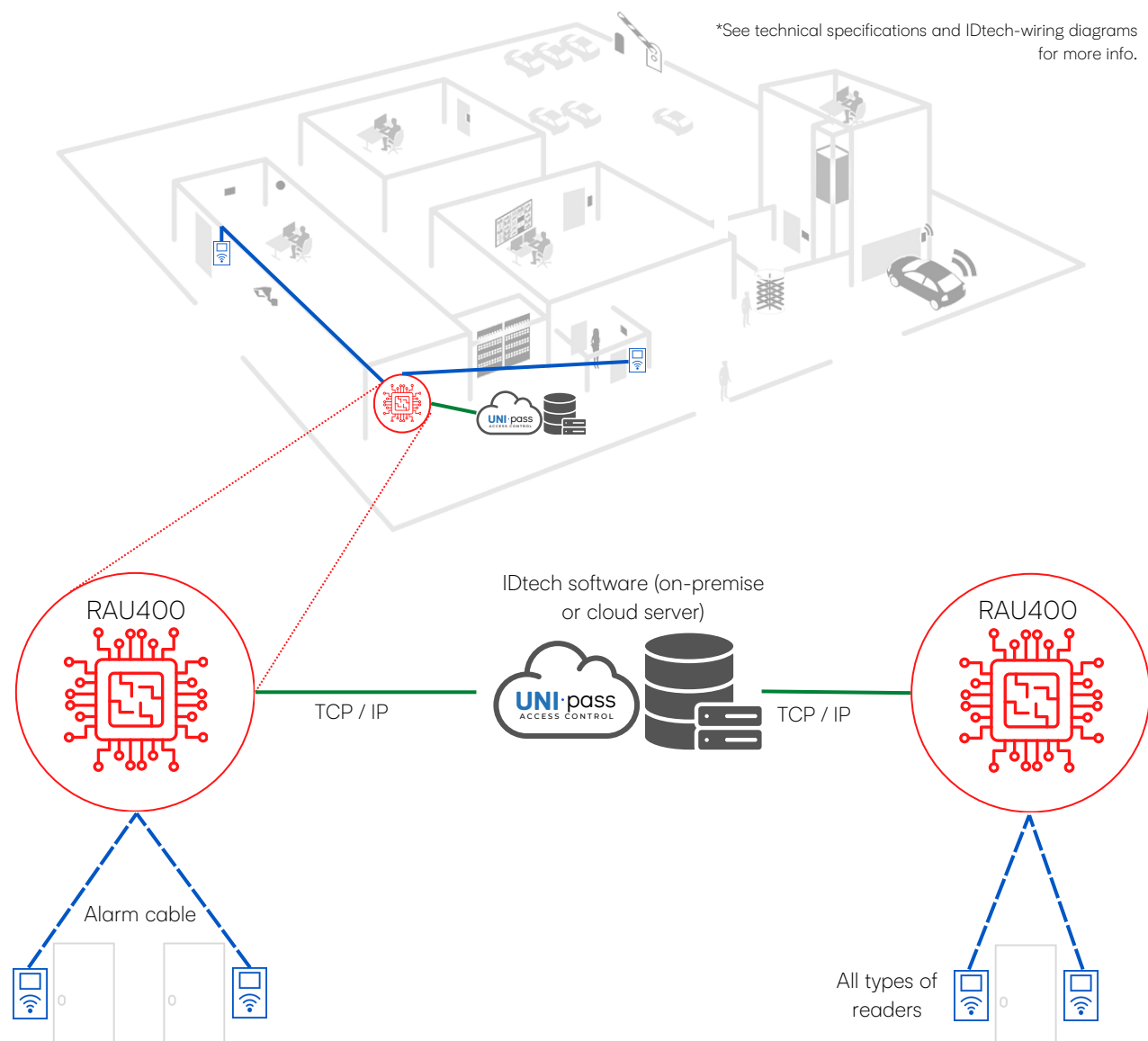
Installation

Connection to peripherals through removable connectors

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)

System Architecture



Technical Specifications (1/2)

Hardware

Version	UT 4
Dimensions (L x H x D)	- Housing: 300 x 300 x 80 mm - DIN: 163 x 120 x 60 mm - Board: 160 x 100 x 40 mm
Weight	- Housing: 12 V: ≈2.5 kg 230 V: ≈3 kg - DIN: 228 g - Board: 128 g
Conformity	CE
Available options	Backup power supply (B.P.S.), I/O module, Wi-Fi, Modem
Related products	RFID reader, UniloQ reader updater

Electrical

Input voltage	12 V DC (+20 %/-10 %) 100 V to 240 V AC (50-60 Hz) for 230 V configurations
Typical power consumption	150 mA at 12 V DC (excluding peripherals)
Power failure protection	≈5 years of data retention - The intern clock keeps working for approximately one week in case of power outage and communication failure.

Communication

Server/Network connectivity	RJ45 ethernet 10 Base-T or 100 Base-TX (auto-sensing)
Communication security	AES (Unipass 6.6.3+) & TLS (Unipass 8+)
Reader connectivity	2 ports for Wiegand or Clock/Data readers 1 port for 2 OSDP or SSCP readers 2 LEDs and 1 beeper / reader
Reader compatibility	- 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	Wiegand, OSDP and SSCP
Max. wiring distance	≈50 m in Wiegand / ≈150 m in RS 485 (OSDP, SSCP)* (*May vary depending on field realities and reader models)
Door opening time	< 1 second
I/O	4 inputs and 4 outputs In option: additional I/O module with 8 inputs and 4 outputs

Technical Specifications (2/2)

Environment

Mounting	Wall mount, DIN rail
Operating temperature	0 to 60 °C

Recommendations

Technical recommendations	• The RAU400 should be placed in a dry and secure location, such as a technical room or cabinet. • Both readers must use the same communication protocol.
Wiring recommendations	• Power supply: 12 V - 2x2.5 mm² LIYY / VTMB ; 230 V - XVB 3G1.5 mm² • 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.