



EASY. ACCESS. ORGANISATION.

With the digital TECTIQ locking system.

The controller unit update terminal Wi-Fi serves as an update terminal when used in combination with the TECTIQ reader. In addition to the update function, the device can also control an actuator for authorisation, for example to open a turnstile. After a locking medium is presented, it is updated and authorisation is then checked. If authorisation is valid, the control unit activates the actuator so that the employee can, for example, pass through the turnstile after updating their locking medium.

TECTIQ Update Terminal with access function

The control unit synchronises the data of the TECTIQ access media with the access control centre during validation or updating. Data such as the validity and authorisations of the medium are updated. Secure continued operation is guaranteed even if the connection is lost: the most recently saved authorisation data is cached for a configurable period (network fallback). Up to 100 TECTIQ Update Terminals can be integrated into a single TECTIQ system across multiple sites via a secure internet connection.

Maximum installation flexibility, secure control, efficient management

Wi-Fi operation enables maximum flexibility and therefore cost-effective installation. The separate installation of the reader unit (e.g. at the gate) and the control unit indoors offers a high level of protection against tampering. The connection is made via the encrypted RS485 bus with a cable length of up to 250 m; the controller unit is not accessible from the outside.

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Set-up and programming are carried out conveniently via the Access Manager software. Data transfer, including firmware updates, can also be performed remotely via the internet (online).

Technologies

- Controller unit update terminal Wi-Fi for operation with the TECTIQ reader, for validating and updating authorisations on access media, and for simultaneously controlling electronic door and gate drives as well as other actuators
- Communication with the TECTIQ access control centre via Wi-Fi (2.4 GHz) for validating, updating and transferring authorisations, battery warnings, logs, etc.
- Property-specific system solution with cross-site connection of up to 100 TECTIQ Update Terminals to the access control centre via a secure peer-to-peer connection
- Secure continued operation in the event of a connection failure to the TECTIQ access control centre through temporary storage (configurable duration) of the latest authorisation data (network fallback)
- Flexible relay configuration directly within the Access Manager software, easy adaptation to electronic actuators and the desired switching mode (NO, NO-pulse, NC, NC-pulse)
- Activation of Office Mode for continuous control of actuators, e.g. for permanently open entrance gates during defined business hours
- Remote mounting for maximum tamper protection, separate installation of controller and reader units with encrypted RS485 bus, up to 250 m cable length, control unit inaccessible from the outside
- Compact installation by placing the reader unit directly onto the control unit installed in the flush-mounted box
- Flexible installation in a flush-mounted box or in an IP-rated surface-mounted housing
- Power supply via 12 V DC or, alternatively, PoE

Technical data - TECTIQ Controller unit update terminal Wi-Fi

Air humidity	Max. 80 % relative humidity, non-condensing
Areas of application	Activation of electronic door and access control systems (e.g. electric door opener, motorised locks, gate and barrier systems) and other actuators
Article abbreviation	TEC-SG-WLAN
Article program	TECTIQ
Cable routing	Up to 100 m distance between control unit and Ethernet adapter, up to 250 m distance between control unit and reader unit (4 x 0.34 mm ² , shielded)
Certifications	-
Colour	white
Communication protocols	TCP/IP, peer-to-peer mediation server
Connections	Two plug-in connection terminals
DC power supply	(terminal 1/connection 1 - 8) PoE IEEE 802.3af or (terminal 2/connection 13 - 14) external 12 V
Default IP settings	DHCP
Depth	47 mm

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Ethernet interface	Terminal 1/connection 1 - 8 (see mounting instructions)
Factory reset	Yes
Failover network	Intermediate buffering of data and continued operation without a network connection for a predefined period of time (can be set on the software side)
Height	71 mm
Inputs	0
Length	47 mm
Management	Access Manager Software
Material	Plastic
Max. Operating temperature	60 °C
Max. current	100 mA/1.0 W (update terminal control unit without actuator/reader unit)
Memory type	Circular buffer: 10,000 events
Min. operating temperature	-20 °C
Mounting type	Flush socket
Net weight	0.0707 kg
Number of wall readers	One reader unit per control unit
Opening time adjustable	Yes (1, 2, 4, 6, 8 or 12 s)
PoE Standard	802.3 af (PoE)
Protection class IP	IP20
RFID technology	No interface, operation via the reader unit
RS-485 interface	Yes
Radio encryption	WPA2, WPA3
Radio frequency	2,400 MHz
Radio range	Open field: 70 m; indoors: typically 25 m
Radio standard	IEEE 802.11g
Real-time clock (RTC)	Yes
Relay configuration	Bistable relay: NO, NC, NO pulse, NC pulse
Relay outputs	One potential-free relay output, dielectric strength: 60 V DC, 50 V AC, current carrying capacity: 1 A DC, 1 A AC
Security features	End-to-end encrypted data transmission via RS485 between control unit and reader unit, separate installation of control unit and reader unit possible
Special functions	Office Mode for permanent activation of the locking element, e.g. during business hours
Time buffering Power failure	Max. 3 hours
Transmission power	100 mW / 20 dBm
Update capability	Yes, via network
Validation intervals	Freely configurable (in the TECTIQ Access Manager)
VdS class	without
signaling	Visual and optional acoustic signalling via the reader unit

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width	71 mm
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