



Technical Data	ENiQ [®] AccessManager V2
Variants:	• AccessManager V2 Compact: Control unit and reader functionality in one housing.
	 AccessManager V2 HiSec: Control unit and reader functionality in one housing plus additional reader unit in separate housing.
	• AccessManager V2 with up to 3 separate reader units.
	• AccessManager V2 Terminal: Control unit and reader functionality in one housing with validity extension.
	• AccessManager V2 Terminal HiSec: Control unit and reader functionality in one housing plus additional reader with validity extension.
	 AccessManager V2 ITT: Control unit and reader functionality in one housing with validity extension and variable authorization assignment.
Technology:	 Mifare 13.56 MHz 2.4 GHz (BLE: Bluetooth Low Energy)
Power supply:	 Depending on connection: External: 12-24 V DC ± 10% (terminals 7/8) Power output (terminals 9/10)¹ PoE (terminals 5/6) <i>Voltage supply must be protected against short circuit!</i>
Current consumption:	• Max. 250 mA (only for reader/control unit)
Time/Date :	 Buffering: 36 hours at +20°C Clock drift at +25°C: ± 10 minutes/year Clock drift at -20 and +65°C: - 50 minutes/year Full buffering is available after 150 minutes operating time
Data preservation after power failure:	Authorizations and events: at least 10 years
Interfaces ² :	RS485 interface for connecting external reader:• Addressing:via Software• Function:half duplex• Data rate:default 115200 Baud• Terminal 18:A (receive)• Terminal 19:B (transmit)• Terminal 20:GND• Termination RS485:via DIP switch 2

¹ Attention!! For DOM reader units only. When using PoE max. one reader unit! ² Attention!! Consider position of dip switches!





Technical Data	ENiO [®] A	ccess	lanager V2	
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Communication protocols: Connecting cable:	 Terminal 1: Terminal 2: Terminal 3: Terminal 4: Terminal 8: Terminal 8: Encryption Key exchar Signature: LLDP, ARP, Recomment 	<i>ield must n</i> : XSALSA20- nge: Curve25 Poly1305-12 UDP/IP, DH ided cable t	5519-256 Bit (elliptical curve) 28 Bit CP	
	Shield	must be conr	nected to ground	
Dip switch:	DIP switch	Position	Explanation	
	1	0	RS485 deactivated	
	T	1	RS485 activated	
	2	0	RS485 termination off	
	2	1	RS485 termination on	
	3	0	Internal bootloader after reset deactivated	
		1	Internal bootloader after reset activated	
	4	0	Status LEDs off	
		1	Status LEDs on	
Environmental:	Temperatu	re: -25°C up	to +65°C	
	• Humidity: 2			
			vhen completely installed	
	(tested according to DIN EN 60529)			
Signalling:	• Optical size alling by 4 multicalour LED(s/maxing light offect)			
Signaturig.	 Optical signalling by 4 multicolour LED's (moving light effect) Additional acoustic signalling 			
	Additional a	acoustic sig	naung	
Programming:	Programming vi		with the following prerequisites:	
riogrammig.	• •	•	ee datasheet ENiQ App)	
			Stick (see separate datasheet of ENiQ	
	AccessManagement Software)			
	 Storage of r 	max. 5 prog	ramming cards	
Events:	Ring buffer	for the late	st 2000 events	
Default IP parameters:	• IP-Address: 192.168.47.11			
-	Subnet mas	sk: 255.255.		
	• Standard G	ateway:	0.0.0	





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Inductive transponder-interface:	 Reading range: up to 10 cm Frequency: 13.56 MHz Field strength in 10m distance: <42 dBµA/m In conformity to ETSI EN 300 330
	Supports passive transponders according to ISO 14443 A
	 Encryption: Mifare DESFire EV1 / EV2: AES-128 Bit Mifare Classic: Crypto 1 Additionally AES-128 bit encryption with object specific keys
Bluetooth Low Energy (BLE)	 Communication range up to 10 m Frequency: 2.4 GHz Transmission power: < 10 mW ERP Conformity to ETSI EN 300 328 Encryption: XSALSA20-256Bit Key exchange: Curve25519-256 Bit (elliptical curve) Signature/Authentication: Poly1305-128 Bit
Inputs control unit:	Two inputs for floating switches:• Max. cable impedance:< 10 Ω• Max. cable length:< 20 m
	Connected to screw-clamp: • Terminals 11/12: input 1 • Terminals 13/14: input 2 Image: Except for PoE supply, the inputs are galvanically connected to the interfaces and to the power supply!
	 Recommended cable type: JY(St)Y 2 × 2 × 0.6 Attention: The cable shield must be connected to ground.
Outputs control unit:	One potential-free changeover contact ³ : • Electric strength: 30V DC 125V AC • Current load: 1 A/DC 0.3 A/AC
	Connected to screw-clamp: • Terminal 17: normally open contact (NO) • Terminal 16: common contact (C) • Terminal 15: normally close contact (NC)
Logical linking of inputs and outputs:	Control for temporal and logical linking; different configurations possible Does not apply to AccessManager Terminal and AccessManager ITT!

Technical Data

³ When controlling actuators, which are an inductive load (coil), for example door opener, magnet etc. a freewheeling diode must be used. The freewheeling diode must be connected in anti-parallel.





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Storage of access authorisations in the device:	 Supported transponders: Mifare DESFire / DESFire EV1 2k, 4k, 8k Mifare Classic 1k, 4k Mifare Plus S/X 2k, 4k Mifare Ultralight / Ultralight C Storage of maximal 5.000 authorisations in the device Identification of the transponders by their UID or by other unique data 				
Storage of access authorisations on the transponders:	 Supported transponder types: Mifare DESFire EV1 2k, 4k, 8k Mifare Classic 1k Other data on the transponder: "Blacklist" with blocked transponders 				
	- Authorisation period, weekly schedule at the device				
Weekly and day's schedules:	• Storage of max. 256 weekly / day's schedules per device				
	• Each weekly schedule points to 10 arbitrary day's schedules				
	(7 week days and 3 special days for holidays): 1 2 3 4 5 6 7 8 9 10				
	Mon Tue Wed Thu Fri Sat Sun holiday / vacation				
	DS1 DS2 DS3 DS4 DS5 DS6 DS7 DS8 DS1 DS2				
	• Each day's schedule consists of 96 time slots of 15 minutes, in each case definable as authorised or unauthorised:				
	0^{00} 1^{00} 2^{00} 3^{00} 20^{00} 21^{00} 22^{00} 23^{00}				
	 Access rights of the weekly / day's schedules: # 0: No access (unauthorised) # 1: Access with no time-limits, active special functions may limit access ## 2-254: Freely definable # 255: Access with no time-limits, active special functions are ignored 				
	Permanent-open and permanent-close weekly schedulesOffice function				
Holidays:	 Storage of maximum 256 holidays or vacation periods per device Definition of 3 different kinds of holidays/vacations Begin / end as from / to date 				
Validity extension:	 only available for variants AccessManager Terminal, AccessManager Terminal HiSec and AccessManager ITT Only available for intelligent transponder Mifare Classic and DESFire The following alternatives can be configured per software: Fixed time on the same day Until dd:hh:mm after showing transponder To fixed Date/Time 				





ENiQ[®] AccessManager V2 **Technical Data** Authorization assignment: Only available for AccessManager ITT Variable authorization assignment for intelligent transponder Mifare Classic and DESFire. Authorization assignment only by Software. स्ति Requiring online connection. Assembly: • In-wall mounting with flush boxes \varnothing 60 \times 42 mm (DIN VDE 0606, DIN VDE 0471, DIN IEC 695) • Alternatively with surface mounted frame • Metallic objects close to the reader or other disturbing effects may reduce the range of the RFID interface and of the RF interface. Minimum distance between two devices > 50cm. Weight: • Approx. 160 g including surface mounting frame Size: • Housing cover: $85 \times 85 \times 5.5$ mm • Mounting frame: 85 x 85 x 10.8 mm • Cover + frame + terminals: 85 x 85 x 26 mm • Frame and surface-mounted frame: 85 x 85 x 32 mm **Plastics:** Mounting frame and surface-mounted frame: • PA6 GF30 cover: • PET / PC Colour: Visible components alternatively: • cover: signal white (9003), graphit grey (7024), jet black (9005) • mounting frame and surface-mounted frame: traffic grey (7042)

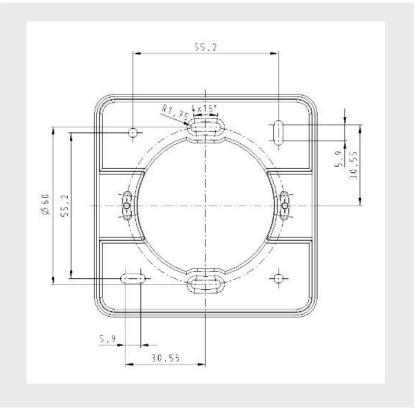




Technical Data

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Bolding points surface mounting frame:





These data correspond to the actual development status and are subject to change at any time without notice. All specifications valid at assembly according to installation instructions.