ARMATURA



The Omni standalone reader controller provides an all-in-one solution for door access. It's the ideal solution for installers seeking a single, versatile device that offers expanded capabilities with fewer components.

The Omni controller functions as an intercom, in addition to providing access control and visitor management. It integrates seamlessly with Cielo365, a cloud-based device and user management platform offering a wide range of modules such as visitor management, elevator control, and badging, creating a streamlined user experience. Also compatible with Armatura One.

Both the OmniAC30 and the OmniAC20 (multi-biometric reader controllers) offer versatility, making them among the most rugged and reliable door controllers available. Their combined palm and face authentication, along with the ability to read NFC, Bluetooth® Low Energy, low and high frequency RFID credentials, QR codes, and PINs, empowers users to secure assets and premises with precision, efficiency, and reliability – all from a single device.

Supports mobile credentials in Apple Wallet and Google Wallet









AMT-OMNI AC20





AMT-OMNI AC30



Slim Design & Mounting Options

The devices slim design with its backplate suits most architectural and interior designs. The Omni20 supports multiple mount types to meet most scenarios worldwide. Mounting accessories for speedgates are also available.



Modern Aesthetic Design

The build of the Omni20 & Omni30 blends a high quality metal enclosure with a tempered glass panel. The elegant design fits perfectly into any usage scenario and its sleek design brings a practical and reliable experience to users.



IP66 Water & Dustproof Protection Rating

Certified IP66 water & dustproof rating ensures the readers can withstand dust, dirt, sand, and are resistant to strong winds and rain.



Industry-Leading Design and User Experience

The Omni20 & Omni30 provides an improved user experience with a 2.4" high resolution touchscreen screen and intuitive UI design. Using our advanced algorithms, users can get the best verification experience. Palm authentication distance range: 7" - 15.7" (18cm - 40cm) Face authentication distance range: 15.7"- 47.2" (40cm - 120cm)



Advanced Security

Secure communication: OSDP(V2.2) over RS485 communication between the device and access control panels. Using AES-128 encryption standards ensures the highest levels of data protection & security.



Input Voltage

The device is compatible with 12V input voltage.



Supports Multiple Card Types

Supports 125 kHz and 13.56 MHz frequency credentials. Supports various card types including EM, IC Card, HID® Prox, HID® iCLASS®, MIFARE® DESFire®, Seos® and FeliCa.



Outdoor Rated for Variable Environments

IP66 Weatherproof rating - built to withstand freezing cold winters, heavy rains and dry/hot summers.
-20°C to 60°C/-4°F - 140°F operating temperature enables operation even under the most severe weather conditions



Multi-Factor Authentication Capability

Offering credential options of palm, face, physical cards and QR codes. IC Card, DESFire®, HID® Prox, iCLASS®, Seos®, etc.

*Integrate advanced multiple biometric authentication methods such as palm and face. *QR code scanning for visitors & employees. *PIN code option.



Unrivaled Palm and Face Authentication Performance

ARMATURA's Multi-Biometric technology combines palm and face authentication with our unique deep learning algorithm to give users an efficient authentication experience. Industry-leading combination of visible and NIR infrared authentication technology provides exceptional authentication accuracy and the industry's top-notch anti-spoofing protection. ISO 19795-2 standard.



Video Intercom

The Omni20 & Omni30 supports video intercom suitable for most visitor scenarios. Two-way audio streaming with echo and noise cancellation lets you easily communicate with visitors.



Touchless Solution for New standards of the Post-pandemic World

The Omni20 & Omni30 meets the needs of the contactless world with features like remote user enrollment, palm, mask detection and face authentication for users with or without masks. Our Palm/ Face/ Card/ QR code authentication technology supports contactless authentication.



Installation Made Easy

Slim design & form factor makes this device easy to install. PoE option allows for minimal use of cabling and lowers the cost of installation. The Omni20 & Omni30 are suited for mullion-mount door installations or any flat surface mounting. Mounting accessories for speedgates are also available.



Better Images, Faster Authentication

This device supports palm/ face tracking, which can more intelligently capture the user's biometrics and avoid the user's biometric from continuing to be compared after verifying. At the same time, the palm/face AE function enables the device to obtain higher quality images which improves the authentication accuracy.



Dimensions

AMT-Omni AC20



AMT-Omni AC30

MTURA



		General Information
	Primary Power	12 VDC (3A min @12V)
	POE	Supported on Omni30 only
	RS485 connection	Port 1: RS485 standard/ OSDP V2.1.7
	CPU	1.2GHZ Quard Core ARM Processor
	NPU	2.4TOPS NPU
	Memory	8 GB Flash + 1 GB RAM
	Camera	Face Automatic Exposure Palm AutomaticExposure Face tracking Palm tracking WDR HDR 50Hz to 60Hz Automatic Adaption Dual Camera CMOS 2MP (Output image 720P*1280P)
	Primary Host Communication	Ethernet: 10/100 Mbps, auto MDI/ MDIX Complies with TLS 1.2 for end to end secure communication channel
	Ethernet network connection	Port 1:10/100 Mbps, auto MDI/MDIX
	Data Protection	Complies with TLS 1.2 for end to end secure communication channel (Secured Communication between Standalone Terminal & Server) AES128 (Secured Communication between the Standalone Terminal & OSDP Readers & Access Control Panels)
	Number of Ports	1*TCP/ IP 1*RS-485 Input: 4ch TTL Inputs Output: 1ch TTL Output 2 relays
	Inputs	Wiegand in, Button, Sensor in, Aux Input
	Outputs	(Omni30) 2 relays with dry contacts, Wiegand Output, Lock, Alarm (Omni20) 3 relays with dry contacts, Wiegand Output, Lock, Alarm, Bell



VDW XI	ADM N	
NormallyOpen Contact Rating	5A @30VDC resistive	
Normally Closed Contact Rating	5A @30VDC resistive	
Tamper Switch	Magnetic tamper detection system	
On-Board Monitor	(Omni20) Size: 2.4", Resolution: 320*240, Touch Monitor, TFT (Omni30) Size: 5", Resolution: 1280*720, Touch Monitor, TFT	
Audio Indicator	Internal speaker with adjustable intensity (Configurable on UI)	
MIC	Supported	
Video Phone	Supported	4 8
User Capacity	50,000	
RFID Card Capacity	50,000 (1:N) / 50,000 (1:1)	
Maximum RFID Card Number Length	Wiegand In & Out (up to 64 bits)	
Face Capacity	10,000 (1:N)/ 50,000 (1:1)	
Palm Capacity	5,000 (1:N)/ 20,000 (1:1)	
RFID Reading Distance	13.56MHz & 125kHz: Up to 1.96"/ 50 mm (depending on environment and transponder)	
Face Authentication Distance	Dual Camera Liveness Detection On: 15.7" - 55.1" (40cm - 140cm) Single Camera Liveness Detection On: 15.7" - 78.7" (40cm - 200cm)	
Palm Authentication Distance and Angle Tolerance	7" - 15.7" (18cm - 40cm) / Pitch +/35, Yaw +/- 60, Roll +/-35, Blend +/-30	
Face Authentication Speed	100ms (Field Test Result)	
Live Face Detection (Anti-Spoofing)	Support	
Recommend Installation Height:	Recommend Installation Height: 55" (140cm) (Using the plate with tilt angle) 59" (150cm) (Plate with horizontal angle)	
Palm authentication Speed	140ms (Field Test Result)	
Transaction Buffer	Records: 1,000,000	
Access group	99	
On-Board Access Point Control	1 access point on board	
On-Board Reader Support	1(OSDP over RS485) or 1 (Wiegand Input)	
Protection / Resistance	Weather & Dust Proof Protection Rating compliant with IP66	
	Normally Closed Contact Rating Tamper Switch On-Board Monitor Audio Indicator MIC Video Phone User Capacity RFID Card Capacity Maximum RFID Card Number Length Face Capacity Palm Capacity RFID Reading Distance Face Authentication Distance Palm Authentication Distance and Angle Tolerance Face Authentication Speed Live Face Detection (Anti-Spoofing) Recommend Installation Height: Palm authentication Speed Transaction Buffer Access group On-Board Access Point Control On-Board Reader Support	Normally Closed Contact Rating Tamper Switch Magnetic tamper detection system (cmni20) Size: 24", Resolution: 320*240, Touch Monitor, TFT (Cmni30) Size: 5", Resolution: 1280*720, Touch Monitor, TFT Audio Indicator Internal speaker with adjustable intensity (Configurable on UI) MIC Supported Video Phone Supported User Capacity 50,000 RRID Card Capacity Maximum RFID Card Number Length Face Capacity 10,000 (tN) / 50,000 (t1) Palm Capacity S,000 (tN) / 20,000 (t1) RRID Reading Distance (depending on environment and transponder) Face Authentication Distance Palm Authentication Distance and Angle Tolerance Cand Angle Tolerance Cand Angle Tolerance Cand Angle Tolerance Cand Angle Tolerance Face AuthenticationSpeed Live Face Detection (Anti-Spoofing) Recommend Installation Height: Recommend Installation Height: Recommend Installation Height: Recommend Installation Face Authentication Speed 140ms (Field Test Result) Transaction Buffer Records: 1,000,000 Access group 99 On-Board Access Point Control On-Board Reader Support 1(OSDP over RS485) or 1 (Wiegand Input)



RFI		
Input Voltage	12 VDC (3A min @12V) (Equal to primary power input)	
Maximum Input Current	12 VDC (3A min @12V) (Equal to primary power input)	-UNTURA
RS-485 Protocol	OSDP 2.1.7 Secure Channel, AES-128	KRMINI
OSDP Mode	9600-115200 bps, OSDP V2.1.7, asynchronous, half-duplex, 1 start bit, 8 data bits, and 1 stop bit.	
Wiegand	Wiegand In & Out (Up to 64 bits)	
Data Inputs	TCP/IP, RS485, OSDP and Wiegand standards supported. Maximum RS485/ OSDP cable length: 500ft (152m) Maximium Wiegand cable length: 328ft (100m)	

Compatible Credentials
MIFARE® Classic EV1
MIFARE® DESFire® EV1
MIFARE® DESFire® EV2
HID® iCLASS® Seos®
HID® iCLASS®
HID® iCLASS® SE/ SR/ Elite
EM4100, 4102, 4200
HID® Prox

	Cable Requirement		
Power & Relays	One twisted pair, 18 to 16 AWG		
Ethernet	CAT-5, minimum 330 ft. (100m)		
RS-485	9600-115200 bps, asynchronous, half-duplex, 1 start bit, 8 data bits, and 1 stop bit. One twisted pair with drain wire and shield, 120 ohm impedance, 22-18 AWG,Maximum cable length: 3937ft (1200m)		
Wiegand	20 AWG shielded ,328ft. (100m)		

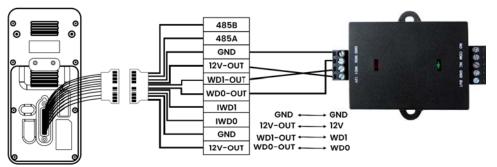


Mechanical		
Dimensions	Omni20: 2.3" W x 0.77" D x 7.3" H (58.47 x 19.5x 184.97mm)	
Weight	Omni20: 0.72lbs (327g) Omni30: 1.84lbs (835g)	
Mounting	Suited for mullion-mount door installations orany flat surface mounting Supports rots-02 bracket (Omni30) Supports mounting plate installation (Single gang/European/Asian box)	
Housing Material	Aluminium alloy + Tempered glass	

Environmental	
Operating & Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Operating Humidity	10 - 95% RH (Non-condensing)
Certification(s)	CE, FCC, RoHS, IEC EN/BS EN 60839 Grade 4

	Software Interface
TCP/IP Mode	Ethernet: 10 - 100Base-TX
TCP/IP Protocol	VLAN, SSH, HTTP, IPv4, DNS
TCP/IP Encryption	Complied up to TLS1.2 end to end secure communication channel
TCP/IP Communication	Push Protocol over HTTP, HTTPS and BEST Protocol over websock
Supported Software	Armatura One and Cielo365

SRB for added layers of protection



Security Relay Box (SRB) is a tiny (2 inch), simple and cost-effective single door controller designed to provide an added layer of security when connected to Omni standalone readers controllers. SRB (not the reader) controls the door lock, thus preventing unauthorized parties from bypassing the door lock when tampering with the reader.

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