ARMATURA

Vanguard Series - VG10

All-Weather Outdoor Multi-Tech Smart Readers

- Designed for Advanced Security
- Supports Over 100 RFID Credential Types
- Optional Touch Keypad / QR Code Scanner

Bluetooth NFC OSDP Apple Wallet Google Wallet QR CODE

VG10CKQ

VG10CKQ-A

VG10CKQ-P

MOBILE READY

CERTIFIED IEC EN/ BS EN 60839 Grade 4

Slim Design & Modern Design

The VG10 reader is a cutting-edge device designed with a slim profile and tailored for mullion mount installation. This sleek design is well-suited for most architectural and narrow doorframes, providing an unobtrusive and seamless integration. The VG10 reader boasts a durable enclosure infused with a tempered glass panel, ensuring sturdiness and elegance in one package. Its modern and refined aesthetics allow it to seamlessly blend into any environment, making it the ideal choice for various usage scenarios. The VG10CKQ model features a metal enclosure, while the VG10CKQ-P model utilizes high quality plastic for durable and reliable performance.

LED Programmability: Unlocking Enhanced Flexibility and Interactive Experiences (Coming Soon)

Experience limitless possibilities with our customizable programmed LED lights, offering an extensive range of colors and display styles for diverse scenarios. Ideal for businesses, these programmable LEDs create an interactive and immersive experience for any occasion. With open, high-level customization options, embark on a journey of unparalleled interactivity, unlocking the full potential of LED lights to elevate your interactive experiences to new heights.

Unrivaled Strength, Durability, and Aesthetics

The VG10 series features robust construction using high-quality materials that outperform in strength and durability. The VG10CKQ model utilizes a stainless steel/aluminium casing that provides exceptional corrosion and oxidation resistance, making it perfect for challenging environments, including coastal regions, medical facilities, food processing plants, and chemical factories. The VG10CKQ-P model features high quality plastic casing, offering durable and reliable performance suited to various installations. Moreover, the construction adds a touch of contemporary elegance, elevating the product with a premium aesthetic. Experience the seamless fusion of structural performance and upscale style.

Advanced Security

At Armatura, our dedicated design team ensures the Vanguard Series exceeds the highest security expectations.

Compact RFID Reader with Touch Keypad

100+

The VG10 is a compact and versatile multi-tech RFID solution. With support for 100+ RFID card types, mobile NFC, and Bluetooth (Low Energy), it adapts seamlessly to diverse installation environments. Additionally, its embedded touch keypad offers users the flexibility to opt for password authentication, catering to individual preferences.

Multi-tech Card & Mobile Credentials

RFID

Experience unmatched versatility with our VG10. Supporting over 100 RFID card types, including optional modules offering more than 10 secure RFID protocols. With seamless integration of Armatura mobile credentials via Bluetooth, our solution caters to a wide array of user needs, providing high flexibility for multi-card scenarios.

Designed for Advanced Security

The VG10 series reader uses VERIFIED OSDP (v2.2 Secure Channel) over RS-485 communication, offering protection against interleaving and replay attacks through AES-128 encryption. For mobile (NFC (Android OS Only) / Bluetooth) and reader communication, AES256 encryption standards are strictly adhered to, further enhancing the level of data security.

Secured Data Storage: Certified EAL6+ encryption

EAL6+

Advanced encryption elevates data protection to the highest security level.

Protection Against SPA/ DPA/ EMA/ DEMA Attacks

Protects against external malicious attacks and safeguards all communication and client data.

Superior Protection Level

Certified with Water & Dustproof ratings, our readers are designed to withstand dust, dirt, and rain, ensuring reliable performance in challenging environments. Additionally, with a certified Vandal-proof rating, they offer enhanced protection against tampering and vandalism. The VG10CKQ model features IP66 and IK07 ratings, while the VG10CKQ-P model features IP65 and IK04 ratings.

Versatile Mobile Identification with Vanguard Series Readers and Armatura ID Mobile App

Card Mode
Present your smartphone to the reader like an access card

Remote Mode
Verify on the reader by clicking a button in the Armatura ID app

QR Code Mode
Present your QR Code and get access

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Key Features

Mobile Credential Capability

The Armatura ID mobile app offers a consistent user experience across iOS and Android platforms. Open doors by presenting your smartphone to the reader or scanning a QR code. Use your phone's Face & TouchID functions for even more secure authentication. It supports both NFC (Android OS Only) and Bluetooth communication methods, extending mobile access functions to almost all smartphone users. Additionally, the -RNI versions of the VG10CKQ, VG10CKQ-A, and VG10CKQ-P models support Apple Wallet and Google Wallet as mobile credentials, enabling seamless integration with these popular digital wallet platforms for enhanced convenience and security.

Compact Design with Touch Keypad & QR Code Scanner Options

Experience seamless compatibility with mullion mount installation, ideal for various architectural settings. Enjoy the flexibility of a touch keypad for password authentication, along with a QR code scanner for recognizing static and dynamic QR codes on all models.

Enhanced Security

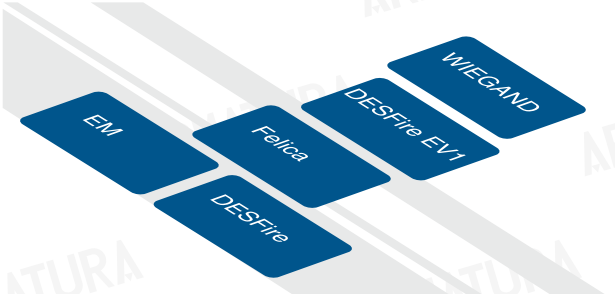
Ensure secure communication with the support of VERIFIED OSDP (Open Supervised Device Protocol) between control panels and readers. Advanced data protection is achieved through certified crypto chips with EAL6+ certification. AES128 end-to-end encryption guarantees that all communications between the control panel and reader remain fully secure.

Ultimate Protection

With Vandal-proof and Water & Dustproof protection, the VG10 series is designed to operate efficiently in any installation environment. The Vandal-proof level enhances its ability to withstand malicious physical attacks, ensuring robust security. The VG10CKQ model offers IP66 and IK07 protection, while the VG10CKQ-P model offers IP65 and IK04 protection.

Multi-Tech Credential Reading Supported

Supports 125 kHz, 13.56 MHz, and 2.4 GHz frequency credentials. Supports 100+ card types, covering most of the common card formats in the market.



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Key Features

Compact RFID Reader with Touch Keypad

Enhanced flexibility with embedded touch keypad for user authentication.

Invisible Keypad Mode

The VG10CKQ and VG10CKQ-P models offer enhanced discretion with Invisible Keypad Mode. Using the Armatura Connect mobile configuration app, administrators can easily turn off the touch keypad and all associated lighting, rendering the keypad completely invisible. This provides a sleek, unobtrusive appearance when password authentication is not required, while preserving full

ARMATURA CONNECT

Smartphone-Based
Parameter Configuration App

Available on the App Store
GET IT ON Google Play

Unrivaled Strength, Durability, and Aesthetics

The VG10 series features robust construction using high-quality materials that outperform in strength and durability. The VG10CKQ model utilizes a stainless steel / aluminium casing that provides exceptional corrosion and oxidation resistance, making it perfect for challenging environments, including coastal regions, medical facilities, food processing plants, and chemical factories. The VG10CKQ-P model features high quality plastic casing, offering durable and reliable performance suited to various installations.
Moreover, the construction adds a touch of contemporary elegance, elevating the product with a premium aesthetic. Experience the seamless fusion of structural performance and upscale style.

VG10CKQ

Unlocking Enhanced Flexibility and Interactive Experiences with LED Programmability* (Coming Soon)

Discover the versatility of our customizable LED lights, offering a wide range of colors and display styles to suit diverse scenarios. With programmable LEDs, you can enjoy an interactive solution, enriched with high-level customization options. Elevate interactive experiences to new heights with our readers and unleash the true potential of LED lights.

Dimensions

VG10CKQ | VG10CKQ-A | VG10CKQ-P | Universal Backplate

Specifications

Internal Number	VG10CKQ	VG10CKQ-A	VG10CKQ-P
Operating Frequency / Standards***	125 kHz; 13.56 MHz: ISO14443 types A & B, JIS X6319, ISO15693 & 2.4 GHz Bluetooth®	125 kHz; 13.56 MHz: ISO14443 types A & B, JIS X6319 & 2.4 GHz Bluetooth®	125 kHz; 13.56 MHz: ISO14443 types A & B, JIS X6319, ISO15693 & 2.4 GHz Bluetooth
Functions	RFID, Bluetooth® and QR code		
Keypad	Touch Keypad		
QR Code Scanner	Supported		
QR Code Scanning Pattern	Area image (640*480 pixel array)		
QR Code Scan Angle	Horizontal: 68°/ Vertical: 51°	Horizontal: 73°/ Vertical: 54°	
QR Code Capability**	One-Dimensional Code: Code 128, Code 39, Codabar, Interleaved 2 of 5, ITF-6, ITF-14, ISBN, Code 93, UCC/EAN-128, GS1 Databar, Matrix 2 of 5, Code 11, Industrial 2 of 5, Standard 2 of 5, Plessey, MSI-Plessey Two-Dimensional Code: QR Code, Micro QR	One-Dimensional Code: Code 128, Code 39, Codabar, Interleaved 2 of 5, ITF-6, ITF-14, ISBN, Code 93, GS1 Databar(RSS), Matrix 2 of 5, Code 11, Industrial 2 of 5, MSI-Plessey, EAN-13, EAN-8, UPC-A, UPC-E, ISSN Two-Dimensional Code: QR Code, Data Matrix, PDF417, Micro QR	
QR Code Scanning Performance*	Narrow Width / Depth of Field 9mil (QR) 1.5"-2.5" (40-65mm) 15mil (QR) 0.3"-4.3" (10-110mm) 20mil (QR) 0.5"-4.5" (15-115mm) 6mil (Code128) 1.7"-3.7" (45-95mm) 9mil (Code128) 0.9"-5.1" (25-130mm) 15mil (Code128) 0.9"-6.1" (25-155mm) 20mil (Code128) 1.7"-5.5" (45-140mm)	Narrow Width / Depth of Field QR (15mil) 1.2"-5.5" (30-140mm) QR payment code (mobile code) 1.6"-9.8" (40-250mm) Data Matrix (10mil) 2.0"-4.3" (50-110mm) PDF 417 (6.7mil) 2.0"-3.7" (50-95mm) EAN- 13 (13mil) 1.8"-8.2" (45-210mm) Code 39 (8mil) 2.2"-3.9" (55-100mm) Code 128 (15mil) 1.5"-8.3" (40-210mm)	

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Specifications

Internal Number	VG10CKQ	VG10CKQ-A	VG10CKQ-P
Communications & Panel Connection	Wiegand, Verified OSDP (V2.2) via RS-485 (Up to 128bits SCP Secure Communication)		
Reading Distance	13.56MHz & 125kHz: Up to 2.3"/60 mm (depending on environment and transponder) Up to 393.7"/10m with a Bluetooth Smartphone (configurable distances on each reader)		
Data Protection	AES128 (Secured Communication between Reader & Controller) Secure Data Storage in EAL6+ Certified Crypto Chip		
Visual Indicator	RGB LEDs (Configurable By 'Armatura Connect' Mobile APP)		
Audio Indicator	Internal buzzer with adjustable intensity (Configurable By 'Armatura Connect' Mobile APP)		
Power Requirement/ Power Supply	9 VDC to 24 VDC (Below 0 degrees, the reader needs separate power supply. Above 0 degrees, a single reader requires a minimum of 2.4W power. Below 0 degrees, a single reader requires a minimum of 8W power)		
Operating Temperature	-4°F - 122°F /-20°C-50°C		
Reader Dimensions	4.78" H x 1.77" W x 0.96" D (121.5 x 45 x 24.5mm)	4.78" H x 1.77" W x 1.0" D (121.5 x 45 x 25.5mm)	
Backplate Dimensions	5.56" H x 3.50" W x 0.41" D (141.3 x 88.8 x 10.5mm)		
Tamper Switch	Magnetic tamper detection system		
Certifications	CE, FCC, RoHS3.0, WEEE, UL294, IEC EN/ BS EN 60839 Grade 4		
Mounting	Mullion-mount or flat surface; universal backplate compatible with Asian Gang, European Gang, Single-Gang boxes		
Protection / Resistance	Weather & Dust Proof Protection Rating compliant with IP66 Reinforced Vandal-proof Structure IK07 certified Casing Material: Satinless Steel	Weather & Dust Proof Protection Rating compliant with IP66 Reinforced Vandal-proof Structure IK07 certified Casing Material: Aluminium	Weather & Dust Proof Protection Rating compliant with IP65 Reinforced Vandal-proof Structure IK04 certified Casing Material: High-quality Palistic
Remarks	***Standard version provides “Read only” function. Customization is required for “Read & Write” function. **VG10CKQ[SFM] is equipped with the same QR module as the VG10CKQ-P *This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/) QR scanning performance was tested in a laboratory environment, and the luminance was recorded as 250 Lux.		

ARMATURA RFID Card Module Supporting List

ArmaSec-01222026

Frequency	Classification	Card Module Abbreviation	[DF]	[MDF]	[SFMH]	[SFM]	[NO]	[NI]	[RNP]	[RNI]	[RNPB]	[RNIB]	[RNOB]
		Compatible Readers	EP10C/ EP20C/ EP20CK/ EP20CQ/ EP20CKQ/ EP30CF	VG10CKQ-A/ VG10CKQ-P/ Griffin20	EP10C/ EP20C/ EP20CK/ EP20CQ/ EP20CKQ/ EP20ENC / EP30CF	VG10CKQ/ VG10CKQ-P/ EP20ENC(Coming Soon)	EP20ENC	EP20ENC/ EP20CQ/ EP20CKQ/ EP30CF	VG10CKQ/ VG10CKQ-P/ EP20CQ/ EP20CKQ/ EP30CF	VG10CKQ/ VG10CKQ-P/ EP20CQ/ EP20CKQ/ EP30CF/ Griffin20	OmniAC20/ OmniAC30/ FT10CMQ	OmniAC20/ OmniAC30/ FT10CMQ	OmniAC20/ OmniAC30/ FT10CMQ
13.56MHz	ISO14443A	LEGIC Advant			√22)	√22)	√1)	√1)	√1)	√1)	√1)	√1)	√1)
		MIFARE Classic, Mini S50,S70,S50	√1)	√4)	√4)	√4)	√4)	√4)	√4)	√4)	√4)	√4)	√4)
		MIFARE Classic EV1	√1)	√1)	√4)	√4)	√4)	√4)	√4)	√4)	√4)	√4)	√4)
		MIFARE DESFire Light		√1)	√4)	√4)	√4)	√4)	√4)	√4)	√4)	√4)	√4)
		MIFARE DESFire EV1	√1)	√1)	√4)	√4)	√4)	√4)	√4)	√4)	√4)	√4)	√4)
		MIFARE DESFire EV2/ EV3	√1)	√1)	√4)	√4)	√4)	√4)	√4)	√4)	√4)	√4)	√4)
		MIFARE Plus S, X			√4)	√4)	√4)	√4)	√4)	√4)	√4)	√4)	√4)
		MIFARE Pro X					√4)	√4)	√4)	√4)	√4)	√4)	√4)
		MIFARE Smart MX			√4)	√4)	√4)	√4)	√4)	√4)	√4)	√4)	√4)
		MIFARE Ultralight		√1)	√4)	√4)	√4)	√4)	√4)	√4)	√4)	√4)	√4)
		MIFARE Ultralight C		√1)	√4)	√4)	√4)	√4)	√4)	√4)	√4)	√4)	√4)
		MIFARE Ultralight EV1		√1)	√4)	√4)	√4)	√4)	√4)	√4)	√4)	√4)	√4)
		NFC (NTAG2xx)					√1)	√1)	√4)	√4)	√4)	√4)	√4)
		PayPass			√1)	√1)	√4)	√4)					
		SLE44R35			√1)	√1)	√4)	√4)					
		SLE66Rxx (my-d move)			√1)	√1)	√4)	√4)					
		Topaz			√1)	√1)	√4)	√4)					
		HID iCLASS SEOS						√20)		√20)		√20)	
		NFC(HCE Mode,works with Armatura ID)			√	√	√	√	√	√	√	√	√
	ISO14443B	Calypso			√1)	√1)	√4)	√4)					
		Calypso Innovatron protocol			√1)	√1)	√4)	√4)					
		CEPAS		√21)	√21)	√21)	√21)	√21)	√4)	√4)	√4)	√4)	√4)
		HID iCLASS			√1)	√1)	√1)	√20)					
		CTS			√	√	√	√					
		Moneo			√3)	√3)	√3)	√3)					
		Pico Pass			√4)	√4)	√4)	√4)					
		SRI4K, SRIX4K			√	√	√	√					
		SRI512, SRT512			√	√	√	√					
	ISO18092/ ECMA-340	Sony FeliCa		√1)	√5)	√5)	√5)	√5)	√1)	√1)	√1)	√1)	√1)
	ISO15693	EM4x33			√3)	√3)	√3)	√3)					
		EM4x35			√3)	√3)	√3)	√3)					
		HID iCLASS			√1)	√1)	√1)	√10)	√1)	√10)	√1)	√10)	√1)
		HID iCLASS SE/ SR/ Elite			√1)	√1)	√1)	√10)	√1)	√10)	√1)	√10)	√1)
		iCODE SLI			√	√	√	√					
		LEGIC Advant			√22)	√22)	√1)	√1)					
		M24LR16/64					√	√					
		MB89R118/119					√	√					
		SRF55Vxx (my-d vicinity)			√3)	√3)	√3)	√3)					
		Tag-it			√	√	√	√					
		Pico Pass					√4)	√4)					
		LEGIC Prime			√22)	√22)							
		CPU Card											

To be released

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		Card Module Abbreviation	[DF]	[MDF]	[SFMH]	[SFM]	[NO]	[NI]	[RNP]	[RNI]	[RNPB]	[RNIB]	[RNOB]
Frequency	Classification	Compatible Readers	EP10C/ EP20C/ EP20CK/ EP20CQ/ EP20CKQ/ EP30CF	VG10CKQ-A/ VG10CKQ-P/ Griffin20	EP10C/ EP20C/ EP20CK/ EP20CQ/ EP20CKQ/ EP20ENC / EP30CF	VG10CKQ/ VG10CKQ-P/ EP20ENC(Coming Soon)	EP20ENC	EP20ENC/ EP20CQ/ EP20CKQ/ EP30CF	VG10CKQ/ VG10CKQ-P/ EP20CQ/ EP20CKQ/ EP30CF	VG10CKQ/ VG10CKQ-P/ EP20CQ/ EP20CKQ/ EP30CF/ Griffin20	OmniAC20/ OmniAC30/ FT10CMQ	OmniAC20/ OmniAC30/ FT10CMQ	OmniAC20/ OmniAC30/ FT10CMQ
125kHz		AWID					√	√					
		Cardax					√	√					
		CASI-RUSCO					√	√	√	√	√	√	√
		Cotag											
		Deister					√6)	√6)					
		EM4100, 4102, 4200	√1)	√1)		√1)	√7)	√7)	√	√	√	√	√
		EM4050, 4150, 4450, 4550					√	√					
		EM4305					√14)	√14)					
		FDX-B, EM4105					√15)	√15)					
		Ultra Prox					√15)	√15)					
		G-Prox						√6)					
		HID DuoProx II (1336)						√	√	√	√	√	
		HID ISO Prox II (1386)						√	√	√	√	√	
		HID Micro Prox II (1391)						√	√	√	√	√	
		HID Prox III (1346)						√	√	√	√	√	
		HID Prox						√	√	√	√	√	
		HID Prox II (1326)						√	√	√	√	√	
		HITAG 1, 2, S					√9)	√9)					
		ICT					√8)	√8)					
		IDTECK					√	√					
		Indala											
		ioProx											
		ISONAS					√	√					
		Keri					√	√					
		Miro					√	√					
		Nedap					√6)	√6)					
		Nexwatch						√					
		PAC					√8)	√8)					
		Pyramid					√	√					
		Q5					√	√					
		T5557, T5567, T5577					√	√					
		TITAN (EM4050)					√	√					
		UNIQUE					√	√					
		ZODIAC					√	√					
BLE		Apple Wallet & Google Wallet								Y		Y	
	Availability	Globally Available	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Remark

√) UID only, customization upon request for reading encryption content
1) UID only
2) Read/ write (customisation) enhanced security features on request
3) Read/ write (customisation) in direct chip command mode
4) UID only, read/ write (customisation) on request
5) UID + read/ write (customisation) public area
6) Hash value only
7) Only emulation of 4100, 4102
8) On request
9) Without encryption
10) UID + PAC (CSN & Facility Code), read/ write(customisation) on request
11) In preparation
13) EV2/ EV3 supported as part of the EV1 downward compatibility
14) From FW V4.05
15) 134.2 kHz only
20) PAC (CSN & Facility Code), read/ write (customisation) on request
21) UID+CAN&CSN
22) UID only, read on request

To be released

ARMATURA

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