Networking Door Access (S-Series)

Technical Specifications

Controller Models	S-Series - 2/4/8 doors per controller (CAS-2S/4S/8S)		
	Advanced - Series -12/16 doors per controller (CAS-12S/16S)		
Microprocessor Model	Motorola 68HC11MCU		
Operating Frequency	S-Series: 8 MHz Advanced-Series: 12 MHz		
Clock System	Real-Time		
EPROM / Flash	S-Series 64K Bytes / 128K Bytes Advanced-Series 128K Bytes		
RAM	S-Series: 128K Bytes Advanced-Series: 1M Bytes		
Watchdog	1 Internal and 1 External		
Battery Back-Up for Memory	3.6V onboard rechargeable backup battery		
Type of Storage System Used	Static RAM		
Operating Temperature Range	0-65°C		
Baud Rate	9600 (Controller to reader) 2400 (PC to controller)		
Stop Bits	1		
Data Bits	8		
Maximum Storage Capability	S-Series: 5,000 cards user and 2,500 transactions		
	Advanced-Series : 5,000 cards user and 50,000 transactions		
Input Voltage	12V DC		
Input Voltage Tolerance	11V-13.8V DC		
Rated Current Input	1A		
Number of Controllers Can Be Connected	16 or 32 Controllers (Depends on software version)		
Number of Readers Can Be Connected	S-Series: 4/8/16 readers (Depends on Controller Types)		
	Advanced-Series: 24/32 readers (Depends on Controller Types)		
Type of Reader Technology	-Contact-less Smart Card -Wiegand 26 bits / Magnetic Signal		
	-Magnetic Stripe Track 2, ABA Format -Barcode 2/5 or 3/9 format		
Type of Usage	Stand-Alone (Reader to Controller)		
	Network-Operated (Reader to Controller to PC)		
Communication Cable Used	1 Pair RS-485 from Reader to Controller for each bus		
	1 Pair RS-485 from Controller to PCI-Interface		
Maximum Length of Communication	1 km (Cable Length)		
Recommended Cable Type	BELDEN Cable 24AWG Standard 1419 A		
Housing	ABS Casing		
Alarm Features	S-Series: 4 digital inputs points & 1 relay output		
	Advanced-Series: 7 inputs point & 1 fire alarm		
	Alarm Arming/Disarming can be manually controlled or timer controlled		
Timer	S-Series: 100 Timer Sets with 3 Intervals		
	Advanced-Series: 256 Timer Sets with 3 Intervals		
Time Zone	S-Series: 100 user Time Zone (9 days/time zone)		
	Advanced-Series: 256 user Time Zone (9 days/time zone)		
Support Multi-Door and	Function available for S-Series and Advanced-Series		
Anti-Pass Back			
Holidays	2 types of 30 dates Progammable Holiday		
Controller Programming Mode Security	3 Passwords: (no access card needed)		
	*Technical Password - Diagnostics only		
	* User Password - Arming & Disarming only		
	* Master Password - Highest Privilege		
Continuous Card Swiping Facility	Function Available		
When Door Is Open			
Controller Display Unit	20 characters x 2 rows Liquid Crystal Display with back-light		
Software Requirements	Run on Window 95/98/NT/Millenium Edition or Compatible		
(Recommended Configurations)	Pentium II, 64MB RAM, 10GB Hard Disk and Display 800 x 600 resolution		
Diagnostic Systems	Built-In Diagnostics		
Indications	Sound Indication When Release Button Is Pushed, Door Left Open And Force Open		
Programming Mode	Menu Driven Programming & Software Programming		
Log File Supporting Through Software	Function Available		
Auxiliary Relay Output	20 Type Programmable Event (Applicable for K-Series & Advanced-Series Only)		
Interlocking Capability	Function Available Between Any Pair of Door (Applicable for N-Series Only)		

'n							
	Model / Features	Control up to	Card Strorage	Events transaction	Time sets (3 intervasl each)	TimeZone (7 days+2 holidays /time zone)	User accessibility
	CENTURION CAS-1S	1 door	2,500	2,500	50	50	50
	S-SERIES CAS-2S / 4S / 8S	2/4/8 door	5000	2,500	100	100	100
	ADVANCED-SERIES CAS-12S CAS-16S	12 doors 16 doors	5,000 5,000	50,000 50,000	256 256	256 256	256 256

Ordering Information

Controller (S-Series)

		Stock code	Description
		CAS-2S	2-doors controller
		CAS-4S	4-doors controller
194n	Dimension nm(W) x 291mm(H) x 81mm(D)	CAS-8S	8-doors controller

(Advanced Series)

	Stock code	Description
	CAS-12S	12-doors controller
Dimension 194mm(W) x 291mm(H) x 81mm(D)	CAS-16S	16-doors controller

Reader

	Stock code	Description
COURT IN COU	PRO-NDT	Proximity reader c/w 12 keys polycarbonate key- pad reader interface unit & ABS casing with blue LCD (Format : Magnetic Signal)
1	PRO-NDH	HID proximity reader c/w 12 keys polycarbonate keypad, reader interface unit ABS casing with blue LCD. (Format: Wiegand 26 bits)
Dimensions : 170H x 185W x 35D mm	CAS-MSN26	Contact-less smart card reader (Mifare Card Serial Number) c/w 12 keys polycarbonate key- pad, reader interface unit & ABS casing with blue LCD (Format : Wiegand 26 bits)
	PRO-4SM-T	Proximity reader c/w 12 keys polycarbonate key- pad, reader interface unit & metal casing.(Format : Magnetic Signal)

Recommended Accessories

Stock code	Description
CPC30	3A/13.8Vdc power supply unit with battery charger
CLP-22-2W	RS485 lightning / surge arrestor (2 wires)
600LB	12Vdc,600lbs electric magnetic lock
Bat7	7AH sealed lead acid rechargeable battery
Communication Cable	Belden 1419

For a full accomplishment of CE marking for door access system, the recommended accessories on the above item need to be included.

SmartGuard Series Software

......

	Stock code	Description
	PCI-1/2	Smart Guard Standard software c/w PC-interface unit: - 1/16 controller version Able to manage door / car park access.
CASTLE	PCI-PRO	Smart Guard Pro software c/w PC-interface unit. - 1 Bus 16 controllers version. - Support fingerprint controller. - Able to manage door / lift / car park access.
	PCI-PRORM	Multiple site remote monitoring software c/w PC-interface unit 1 Bus 16 controllers version Support fingerprint controller Able to manage door / lift / car park access.
Dimension	PCI-RMAGN	-Remote program data collector. (Remote Agent)
97mm(W) x 135mm(H) x 37mm(D)	CV2588	-RS485 to LAN converter. (UTP Ethernet 10 Base T with TCP/IP protocol)
	CAS-OEM	Software development kit to communicate with Castle S-Series Controller. (CASWIN-OEM)
	PCI-C/S-1A	Smart Guard Client-Server software c/w PC-interface unit 1 Bus 16 controllers version Able to manage door / lift / car park access.
	PCI-C/S-2A	Smart Guard Client-Server software c/w PC-interface unit 2 Bus 32 controllers version - Able to manage door / lift / car park access.
	PCI-C/S-RM1A	Smart Guard Client-Server remote software c/w PC-interface unit. (Multiple site remote monitoring) - 1 Bus 16 controllers version - Able to manage door / lift / car park access.

.......

SmartGuard series software runs on : Win 95, NT, 98, 98(SE), ME, 2000 Professional

System Configuration [RS-485 Connection]

