Door Access Controller (DAC)

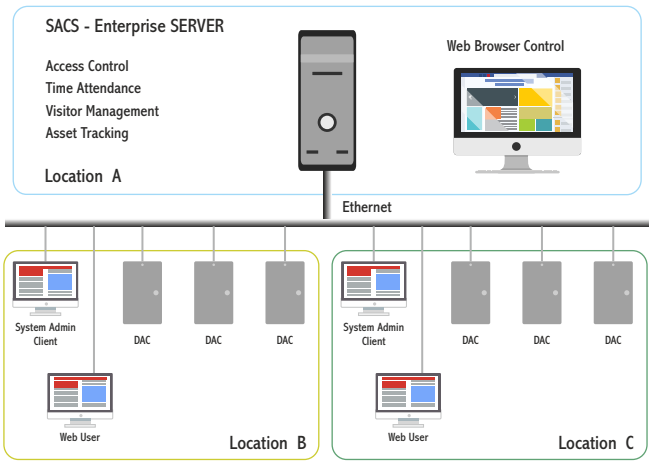
Networked Intelligent Controllers

The DAC access control and time and attendance panels set the industry standard for performance, reliability, flexibility and cost effectiveness. They are designed and manufactured for use with the SACS™ Solus Access Control System Software, Based on a Dual Processing platform, each IPW panel contains Upto 4GB of Flash Memory allowing high speed transactions and support upto 1 Million cardholders (With Extended Memory).

The DAC provides connection for up to eight readers, eight locks, and eight egress buttons (REX). On-board programmable relays and supervised alarm inputs are provided on each panel.

The DAC has built-in Web browser Interface that allows remote maintenance & management of controllers in a network or even on Internet. Remote management include initial configuration, firmware upgrade and even log retrieval. DAC also allow for connection through RS-485, RS-232 This topology provides the installation flexibility required by a variety of facilities.

System Architecture



Features & Benefits

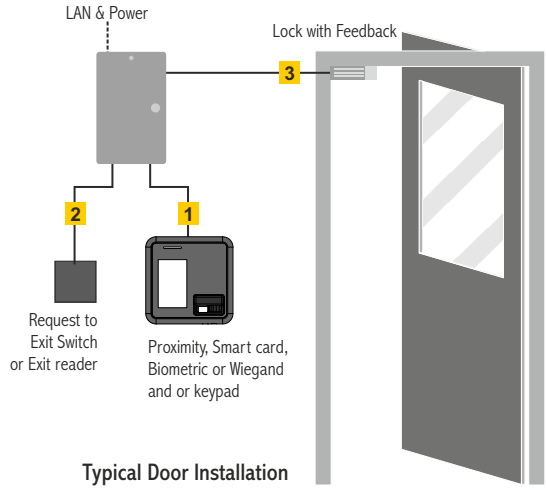
- Directly supports 2 / 4 / 8 / 14 / 16 readers. Readers may consist of OSDP, Proximity, Contact less Smart card, Biometric technologies, keypad, or combined reader / keypad ; Keypads may be used for controlled entry, PIN, reasons, masking and unmasking of alarm devices and activation of a duress alarm.
- Supports variable card formats to enable the use of a facility's existing cards. Also supports multiple site or facility codes.
- Dual processor assures high speed downloads, fast access and real-time alarm reporting. Upto 4GB of Flash Memory & support upto 1 Million cardholder records in each panel.
- Includes supervised inputs for door contacts, motion detectors, glass break sensors and other alarm devices as well as request to-exit devices and electric door hardware. Also provides programmable auxiliary relays (outputs) for interface with other building systems.
- On Board 100/1000 LAN connection is standard. Instant Access ensures that there is no waiting for access during the download of information of the field panels. RS-485 (2 wire) and RS-232 connectivity is standard.
- Local Anti-Pass back feature is a method of preventing an ID device from gaining access to an area more than once, without it first being used to exit from that area.
- Operating firmware is stored in FLASH memory for easy updates operating from the PC remotely.
- Updates can occur over LAN / WAN centrally.
- Slip hinge metal enclosure with tamper switch provides ease of installation and service as well as security.
- Built in SMPS with battery or external power supply with battery maintains the DAC board and direct-connected readers and lock in the event of a power failure.
- Connection diagram overlay allows for easier wiring and installation as well as viewing of system diagnostic LEDs.
- Controller is configurable to provide secure, bidirectional communication in compliance with OSDP (Open Supervised Device Protocol) protocol

DAC02/04/08 Intelligent Controller

System Description

Cabling Information

Sl.No.	Description	Cable	Max. Distance
1	CTR to RDR	22 AWG 8 Core Shielded (SAC-Solus Access Control Cable Recommended)	150 mtr.
2	CTR to REX	18 AWG 4 Core Shielded (SAC-Solus Access Control Cable Recommended)	150 mtr.
3	CTR to LOCK	18 AWG 4 Core Shielded (SAC-Solus Access Control Cable Recommended)	150 mtr.
4	CTR to CTR	24 AWG 4 Core Shielded (SAC-Solus Access Control Cable Recommended)	1200 mtr.
5	CTR to LAN	CAT 5/CAT 6	100 mtr.



Typical Door Installation

Specifications

Card Holders	2,50,000 *
Transactions	1,00,000 *
Inputs	12 / 28
Outputs	8 / 24
Internal Flash Memory	4GB
Processor	ARM
Communication	TCP / IP, RS-422, RS-485

* Expandable up to 1 Million

Device Support

	Reader	Lock	Egress
• DAC 02	2	2	2
• DAC 04	4	4	4
• DAC 08	8	8	8

Environmental

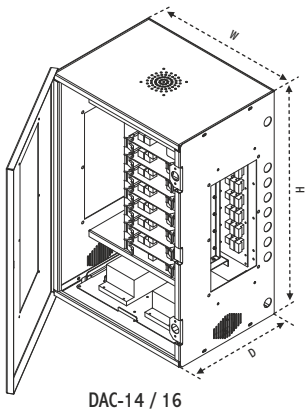
- Maximum : 65 °C (150 °F)
- Minimum : 0 °C (32 °F)
- Humidity : 0 to 95% relative

Dimensions

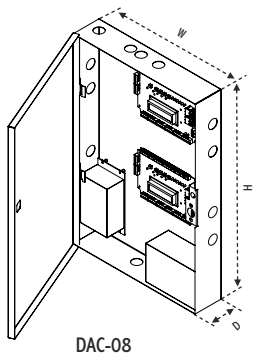
	DAC-02/04	BAT	DAC-08	DAC-14/16
• Height	380 mm	370 mm	520 mm	525 mm
• Width	260 mm	350 mm	350 mm	345 mm
• Depth	70 mm	80 mm	90 mm	260 mm
• Weight	2.5 Kg	6.5 Kg	7.5 Kg	8.5 Kg

Power

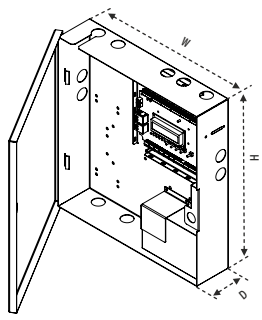
- Input 230VAC / 12VDC Approx. 40VA



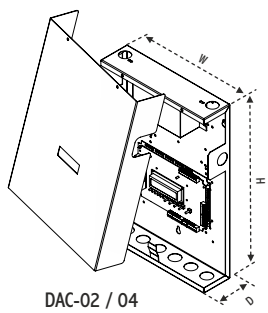
DAC-14 / 16



DAC-08



DAC-02 / 04 - BAT



DAC-02 / 04

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