



# Application CONTROLLER

- **Capacity:** can manage over one million credentials
- **Flexibility:** available in plastic or secure metal housing
- **Power:** 1GHz ARM cortex microprocessor

**Enterprise** solution for distributed control and backup



## WHO SHOULD USE THE APPLICATION CONTROLLER?

The application controller is ideal for large sites, or centralised sites with multiple buildings. The unit has been specially designed to operate with Access Portal software, and manage the high volume of controllers and users typically found on such sites.

### PRODUCT BENEFITS:

- Manages up to 64 controllers, for a high level of flexibility and control
- Metal housing comes standard with built-in power supply and space for a backup battery
- Increases the capacity of the access control system – more events, actions and rules
- Variety of ports to manage and control other devices

The application controller is an extension of the Access Portal hardware range, which is specifically designed for large sites, or sites with multiple buildings.

The unit is able to provide unrivalled high capacity offline functionality. In the event of connection being lost to the server, the application controller is able to maintain an onboard transaction log of up to one million transactions. Once back online, the system automatically synchronises these actions to the server, to ensure a full audit trail and log.

Further, the application controller provides distributed control through its ability to manage up to 64 cluster controllers and multiple zones, for enhanced security and redundancy as the risk of a single point of failure is removed.

### Increased capacity

The true power of the application controller can be seen in the increased capacity it enables onsite. Without an application controller, you can be limited to 100,000 credentials – with

the device, over one million. The actions per event are also increased from 25 to 128, whilst access groups per person move from 10 to 255, all through the use of a single application controller.

### Housing options

As each installation is unique, the application controller is available in two variants. The smaller footprint plastic housing, or a robust metal enclosure which comes prewired with a Meanwell switch-mode power supply and capacity of a backup battery.

### Remote uploads

A significant feature of the application controller is the ability to undertake full uploads on site, without downtime, due to the powerful computing abilities of the device. This reduces potential security risks, whilst also ensuring greater convenience for site maintenance.

# Specifications

## PORTAL APPLICATION CONTROLLER

Model name	Application controller (plastic)	Application controller (IPS)
<b>Part number(s)</b>	HCA910	HCA930
<b>Product description</b>	Application controller in plastic housing	Application controller in metal IPS box
<b>Colour</b>	Black	
<b>Dimensions (d-w-h)</b>	5.6cm x 17cm x 12.9cm [2.2" x 6.69" x 5.08"]	8.2cm x 38.3cm x 31.3cm [3.22" x 15.1" x 12.3"]
<b>Approximate product weight</b>	295g [10.4 oz.]	3.8kg [8.38 lb]
<b>Material</b>	ABS plastic	Powder-coated metal box
Electrical specifications		
<b>Input voltage</b>	10 to 15V DC	90 V AC to 240 V AC at 50/60 Hz
<b>Power requirements</b>	2W at 10V DC ; 2.25W at 15V DC	N/A
<b>Output voltage</b>	N/A	13.8V DC
<b>Power output rating</b>	N/A	75W
<b>Power input protection</b>	Reverse polarity on DC power inputs, over-voltage & over-current protection provided	
Connectivity		
<b>Ethernet</b>	TCP-IP 10Mbps/100Mbps	
<b>USB</b>	2 x USB 2.0 ports	
<b>RS485</b>	1 x device port	
System specifications		
<b>Processor</b>	AM335x ARM Cortex-A8 1GHz with VFP & NEON floating-point accelerators	
<b>Non-volatile memory</b>	16 GB microSD card, Class 4	
<b>On-board memory</b>	4 GB On-board EMMC	
<b>RAM</b>	512 MB DDR3	
<b>Operating system</b>	Linux Debian 9	
General		
<b>Anti-tamper Protection</b>	PCB mounted switch	Panel mounted limit switch
<b>Real Time Clock Battery (RTC)</b>	1 x 3V, CR2032, Lithium cell battery	
<b>Power indicator</b>	Red LED (internally visible)	
<b>Ethernet diagnostic indicators</b>	Link speed , Link active - red LED's	
<b>CPU diagnostic indicators</b>	CPU Usage - red LED, CPU running - green LED	
Environmental specifications		
<b>Operating temperature</b>	-10°C to +50°C [+14°F to 122°F]	
<b>Storage temperature</b>	-15°C to +50°C [+5°F to 122°F]	
<b>Operating humidity</b>	0 to 95% relative humidity at 40°C [104°F] non-condensing	
<b>Environmental rating</b>	designed to work indoor (dry) environment similar to IP20	
Certifications		
<b>CE (EU)</b>	Pending	Pending
<b>SABS (RSA)</b>	Pending	Pending
<b>RoHS</b>	✓	✓



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