Adaptability in Lighting Control
Field Programmable System
Small to Medium Applications
Upgradable to K8 Series
Limited Networkable Capabilities

Relay Panels Specifications
• 8, 16 and 32 Relay Capacity
• 120/277/347 VAC
• Factory Wired

Relay Specifications
• 20 A HID Rated
• 1 Pole
• 2 Wires
• Manual Override
• Mechanically Held

KC-401 Relay Controller
• 16 Outputs
• Up to 4 Groups (zones) Configuration
• Two controllers can be networked and therefore control up to 32 relays and 8 groups
• Multi Group Relay Assignment Capability
• Real Time System Status Feed back Provided Through Different Led Patterns
• Membrane Keypad
• Push Button Switch Tone

KC-411 Time Clock/Relay Controller
Same features as the KC-401 Controller except:
• 8 Outputs (Channels or Relays)
• Up to 2 Groups (zones) Configuration
• A KC-411 can be networked with a KC-401 and therefore control up to 24 relays and 6 groups.
• LCD Display (4 Lines – 20 Characters)
• Palm Pilot Programming/Operation Capabilities (IRDA)
• Photocell Dedicated Input (2)
• Daylight Savings
• Astronomical Clock
365-Day, 7-Day and 24-Hour Programming
Up to 500 Schedules (Once, Daily, Weekly, Monthly, Yearly)
• Event Priority Management
• Automatic Opposite Action Programming
• Multiple Inputs Combination
• 4 Devices / KC-401
• 2 Devices / KC-411

Fully Programmable (Kameleon Software)
Networkable System
Modem, Telephone and Internet Interface Capability
Medium to Large Applications

Relay Panels Specifications
• 16, 32 and 64 Relay Capacity
• 120/277/347 VAC
• Factory Wired

Relay Specifications
• 20 A Hid Rated
• 1 or 2 Poles
• 2 Wires
• Manual Override
• Mechanically Held

Note: Breaker-relays and solid states relays can be supplied

KC-811 Digital Time Clock
• Astronomic
• Built-in Scheduler
• Automatic Daylight Savings
• Complete Scheduling Capacity: Daily, Weekly, Monthly Events, First Monday of September, Fixed Holidays etc…
• 9 Months Battery Back-up

KC-821 Input Controller (Optional)
• Controls Up to
  - 8 Low-Voltage Switches
  - 16 Dry Contacts Devices

KC-83x Output Controller (Optional)
• Controls Up to
  - 8 Low-Voltage Switches
  - 16 Dry Contacts Devices

Kameleon Software
• Windows 9x/2000/XP or NT 4.0 Based
• System Configuration, Programming and Operation
• Highly Graphical Interface
• Scheduler Viewer
• Data Logger

Echelon Based System
K8 Upgrade with Dimming Control Capabilities
Common Equipments with K8 Series
• Relay Panels (Optional)
• Relays (Optional)
• KC-811 Digital Time Clock
• KC-821 Input Controller (Optional)
• KC-83x Output Controller (Optional)

KC-841 Dimming Controller
• Same Functions as K8 Series plus
  • Light Sensor Configuration
  • Constant Light & Daylight Harvesting
  • Control Scenes Configurations with Fade Time & Delay Lamp Actuator

Controller Relay Type Control Capacity
KC-831 2 Wire 16
KC-832 3 Wire 8
KC-833 Breaker-Relay 8
KC-834 Solid State 16

Low Voltage Components

System
Controller Control Interface Devices
• KC-841 Analog Dimming Ballast (0-10VDC)
• KC-842 DMX-512 (input) Dimming Rack (Serial Port)
• KC-843 DMX-512 (output) Dimming Rack (Serial Port)

Gentec is a proud user of Echelon® Technology

Open system technology has been a major development in building automation strategies. LonWorks™ technology supplies the essential ingredient for open building systems – Interoperability. The LonWorks™ technology can be found in more than 3,500 products around the world. Interoperability means that different products and systems, designed by different manufacturers to perform different tasks, can now be linked together to form flexible, functional control systems. For example, lighting control, motor drives, HVAC systems, security and fire alarm supplied by different manufacturers can work together in a cohesive automation system.

Interoperability: The key to open building systems

 LonWork®: The heart of Kameleon

With the adoption of the LonWork® open system technology by Echelon®, the Kameleon K8 and K8 Dimming Series serve the objective of bringing to the market complete hardware and software packages capable of operating not only in a stand-alone mode, but also within a complete control network. Like their namesake, they adapt perfectly to any environment they are put in.
<table>
<thead>
<tr>
<th>Features</th>
<th>K4</th>
<th>K8</th>
<th>K8D</th>
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<tbody>
<tr>
<td>Relay Panels Capacity</td>
<td>8, 16 &amp; 32</td>
<td>16, 32 &amp; 64</td>
<td>16, 32 &amp; 64</td>
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<tr>
<td>Two-Wire, 20A, H.I.D., 1 Pole, Latching Relay</td>
<td>✓</td>
<td>✓</td>
<td>✓*</td>
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<tr>
<td>Two-Wire, 20A Plug-In Relays, 1 Pole, Latching Relay</td>
<td>✓</td>
<td>✓</td>
<td>✓*</td>
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<tr>
<td>Two-Wire, 20A, H.I.D., 1 Pole Breaker-Relay, Latching Relay</td>
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<td>✓</td>
<td>✓*</td>
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<tr>
<td>On-Site Programmable Time Clock (8 Channels)</td>
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<td>On-Site Group Configuration</td>
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<tr>
<td>Network Capability</td>
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<tr>
<td>Interoperability -- LonMark</td>
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<tr>
<td>Software Interface</td>
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<tr>
<td>Telephone/Modem Interface and Internet Connection</td>
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<tr>
<td>Switches/Sensors/Photocells Connection</td>
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<td>Time-On Extension</td>
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<td>Logger</td>
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<tr>
<td>Dimming Control</td>
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<td>Scene Controller</td>
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<tr>
<td>DMX-512 Compatible</td>
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<tr>
<td>Load Shedding Capabilities</td>
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</tbody>
</table>

* Optional  ** Only if not equipped with the KC-811 Time Clock Controller  *** 2-hour Fixed Time
Kameleon: a complete line

Gentec’s Kameleon line offers a wide range of solutions to suit any lighting control requirement. From the field programming (K4 Series for small to medium application such as schools and warehouse to the fully programmable and console-operated KB and KBD Dimming Series, the Kameleon K Series will adapt to all possible configuration requested by the end-user. Because they are built around the same technology, each Series can easily be upgraded or work in a mix mode.

Service and guarantee

For more than 45 years, Gentec has been developing innovative solutions for energy management and lighting control; the most prestigious clients recognize our unique expertise. Besides high-quality products that are perfectly adapted to client needs and requirements, Gentec offers a distribution network and service locations accessible from coast to coast. In addition, all our products are guaranteed from one to two years, parts and service.