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## Application Note: DP01

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# DaliPro® system Features

DALI stands for Digital Addressable Lighting Interface. It is a protocol defined by the International Electrotechnical Commission (IEC). DALI allows simplified and flexible control wiring and management for lighting control systems.

### DALI Features:

- ❑ **Powerful two-way communication:** DALI is a digital two-way communication protocol. DALI system allows the user to talk to the ballast and ballast to talkback via DALI controllers, computers equipped with appropriate software, or building management systems (BMS).
- ❑ **Easy System setup:** All components in a DALI system control loop are connected in parallel to two control wires. Even though all the ballasts share the same data bus, they can be addressed either individually or in groups.
- ❑ **Programmable GROUPs:** DALI allows the user to subdivide the loop in to 16 Groups (A number of light sources grouped together for simultaneous control) through programming after the system installation.
- ❑ **Programmable SCENEs:** DALI allows the user to program up to 16 recallable pre-set lighting scenarios called scenes.
- ❑ **Easy system re-configuration:** An existing DALI system with functioning groups and scenes can be reconfigured through programming without any hardware changes.
- ❑ **Non-polarized control wires:** The non-polarized control wires simplify initial installation.
- ❑ **The talkback feature** of the DALI ballasts makes the lighting system parameter monitoring and troubleshooting simple. (*Bad ballast? Lamp failure? Dimming settings or where the ballast is located etc.*).
- ❑ **Programmable Fade time:** Programmable time duration for transitioning to new lighting scenes.

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### DALI Parameters

- ❑ Each DALI loop can control systems of up to 64 devices. If more devices are needed, additional DALI loops can be used.
- ❑ Maximum number of groups (components/ballasts/fixtures that are controlled together) in each DALI loop is 16.
- ❑ Maximum number of Scenes is 16.

### DaliPro® Ballasts

- ❑ DaliPro® digital dimmable ballasts are designed for use with DALI compatible controls.
- ❑ Universal lighting technology offers a wide variety of DaliPro® ballasts for TT5, T8, T5 & T5HO & CFL lamps.
- ❑ DaliPro® ballasts feature Universal input voltage (108–305 volts) for installation flexibility.
- ❑ Dimming range down to 1% for linear lamps and 3% for compact fluorescent lamps.
- ❑ Control input protected against inadvertent connection to line voltage.
- ❑ End of lamp life protection.
- ❑ Programmed rapid start.



A list of available DaliPro® ballasts and their applications is available on the Universal website at [www.universalballast.com](http://www.universalballast.com) in the dimming section.

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For further assistance or ordering information please contact Universal lighting technologies @ 1-800-BALLAST or visit our website at <http://www.universalballast.com/>