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# LOCOLINC



## POWER ... THE CHOICE IS YOURS! IT'S AS SIMPLE AS 1..2..3.

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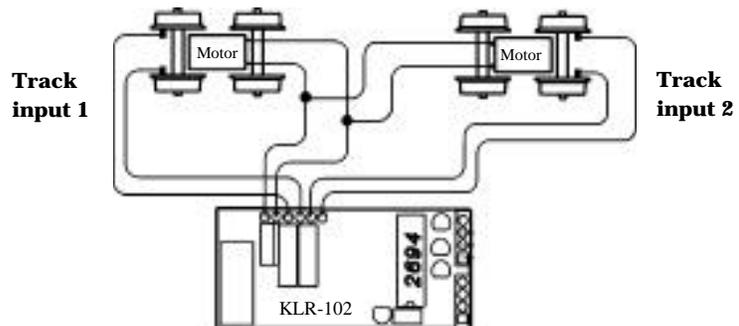
The Keithco LOCOLINC® family of addressable wireless control systems has been designed as a self-contained, stand-alone command control system offering the ultimate flexibility for the user. Choosing between track power, battery power or operating in a battery backup mode is as easy as connecting to the d.c. power source of your choice. The input power source may be from the track, a battery or a combination of the two as in a battery backup configuration.

Since each Keithco receiver input connection contains diode bridges, there is no need to consider voltage polarity. Polarity is automatically corrected by the receiver. This is true for the KLR-101 (one amp) up through and including the KLR-102 and KLR-105 receivers.

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### *1 Track Power*

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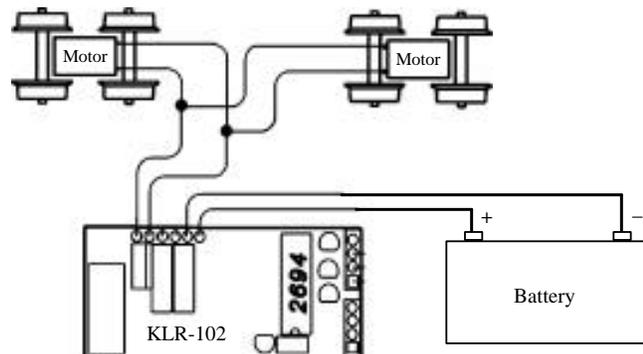


**Input voltage:** 12-18 volts d.c.

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### *2 Battery Power*

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**Input voltage:** 12 - 18 volts d.c.  
**Battery:** Ni-cad or sealed lead acid rechargeable batteries

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To determine the approximate run time using a battery, simply divide the amp hour rating of the battery by the locomotive current.

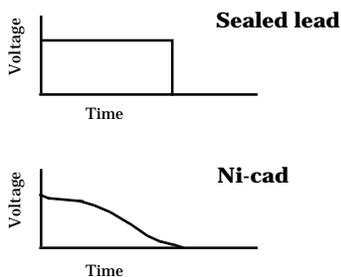
**Example:**

Battery rating: 2.3 amp hour  
 Locomotive amps: 2.0 amps  
 Run time =  $\frac{2.3 \text{ amp hrs}}{2.0 \text{ amps}} = 1.15 \text{ hrs}$

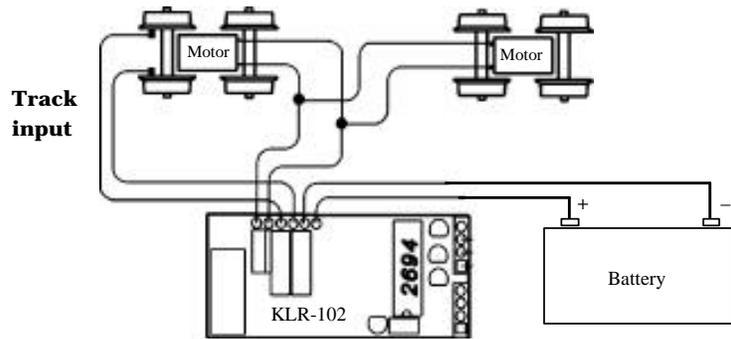
Naturally run time can be increased by using a battery with larger capacity (amp hour rating).

Also, the discharge characteristics of the batteries should be considered. Sealed lead batteries have a superior discharge characteristic as shown by their flat voltage as the battery discharges. A comparable voltage ni-cad battery has a very poor discharge behavior curve and therefore reduces overall run time at comparable speed.

**Discharge behavior**



### 3 Battery Backup



Each LOCOLINC receiver has two bridged inputs. Therefore, one input can be connected to track power, the other to battery power. The input with the higher voltage will dominate as the receiver's input voltage. If track voltage is removed or lost, the battery will automatically power the receiver with no interruption in operation.

Should you wish to use batteries as the input to your LOCOLINC receiver, a simple charging scheme is available using the Keithco KBC-110 charger. This charger is installed in the locomotive and when provided with

an input voltage in the range of 12 to 18 volts charges batteries from 12 to 25 volts. Since this unit is a trickle charger, output current level to the batteries under charge is approximately 150 ma.

The easiest way to use the charger is to place the locomotive on a section of powered track. Track power is then routed to the input of the charger.



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**The LOCOLINC family of addressable radio control products includes:**

**TRANSMITTERS**

- KT-64** Controls up to 64 locomotives and 256 accessory devices
- KT-32** Controls up to 32 locomotives and 128 accessory devices.
- KT-16** Controls up to 16 locomotives and 64 accessory devices

**LOCOMOTIVE RECEIVERS**

- KLR-101** 1-Amp
- KLR-102** 2-Amp
- KLR-105** 5-Amp
- KLR-100S** Servo receiver for live steam (controls 2 servos)

**ACCESSORY RECEIVERS**

- KAR-104M** Controls up to 4 motorized switch machines
- KAR-104T** Controls up to 4 twin-coil switch machines

- KAR-108M** Controls up to 8 motorized switch machines
- KAR-108T** Controls up to 8 twin-coil switch machines

**ACCESSORIES**

- KBC-110** Battery charger
- KB-6** Battery pack, 7.2 V, 1400mah
- KB-8** Battery pack, 9.6 V, 1400mah
- KB-10** Battery Pack, 12 V, 1400mah