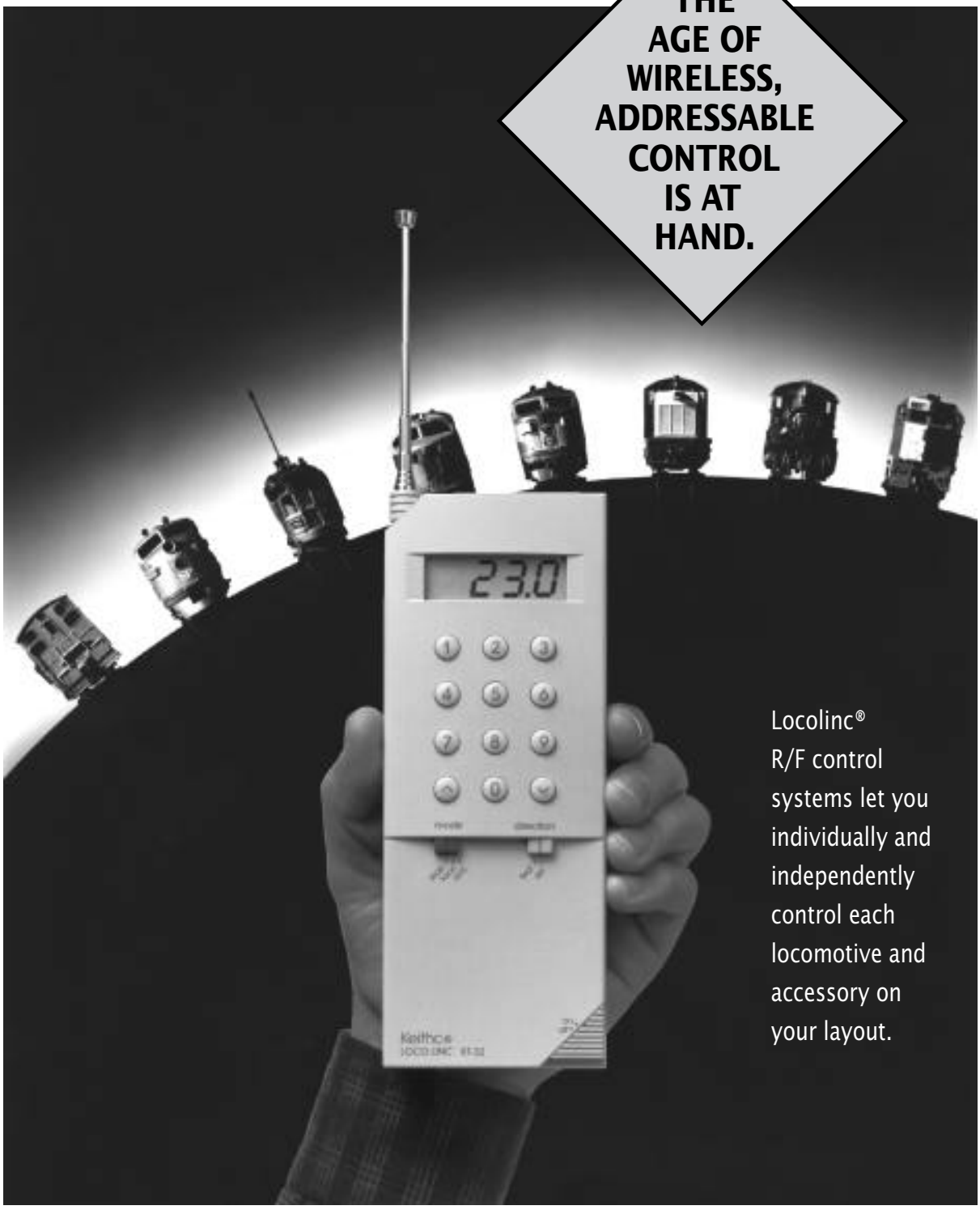
L·O·C·O·L·I·N·C


THE AGE OF WIRELESS, ADDRESSABLE CONTROL IS AT HAND.
23.0
Locolinc®
R/F control systems let you individually and independently control each locomotive and accessory on your layout.

At last, an advanced system of layout control

Locolinc® uses advanced radio frequency electronics to directly address each and every locomotive or accessory you want to control. Model railroad hobbyists, from N-Scale through G-Scale, will find a new level of enjoyment – without the hassles of block wiring schemes.

The Locolinc family of wireless, remote control products includes three models of handheld transmitters and several types of receivers.

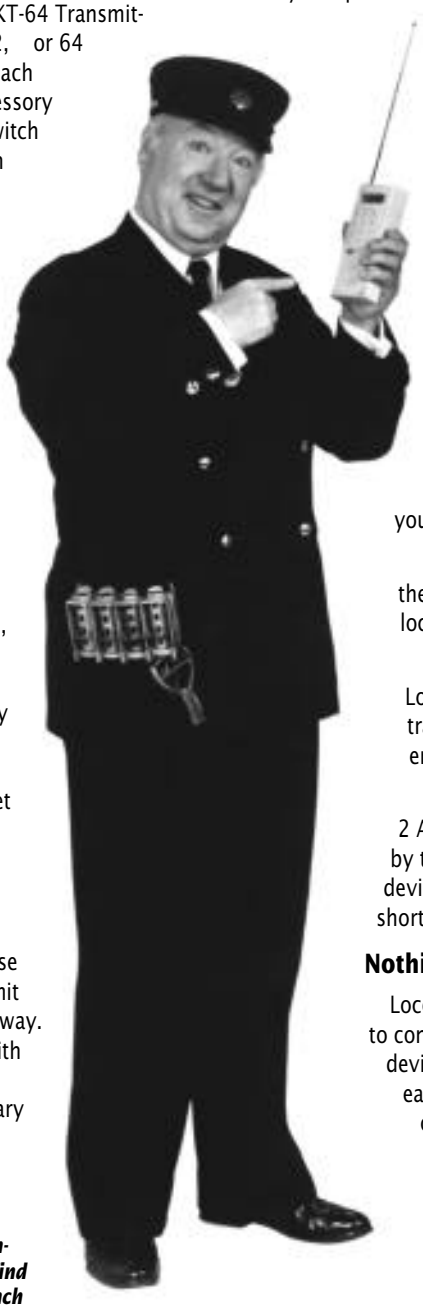
The KT-16, KT-32, and KT-64 Transmitters work with either 16, 32, or 64 locomotives. Additionally, each transmitter can control accessory devices such as twin coil switch machines, motorized switch machines, or logic devices. For example, the KT-64 transmitter controls 64 locomotives, 256 twin coil switch machines, or combinations of other devices.

The most demanding layout control problems have finally been addressed.

Locolinc answers the demand for the next generation in layout control, one that employs advanced technology. Not only is Locolinc the only completely radio-controlled system for model railroading, it is also the fastest and easiest to get up and running.

It eliminates the control complications, rigidity, and installation hassles of block wiring schemes. And because it's wireless, you can transmit commands up to 150 feet away. No longer are you bound with the twists and tangle of umbilical cords – or stationary command or receiving modules.

"Check out all the advantages of Locolinc, then find out how easy it is to punch into First Class model railroad operation."



Step up to control realism.

Just connect one Locolinc Receiver to the input power source, battery or track, and the motor inside each locomotive you want to control, or inside a dummy engine or adjacent car. This allows you to independently transmit commands to change the locomotive's direction and speed.

Locolinc Accessory Receivers add a new dimension of expanded layout control. Several types of accessory receivers are available permitting easy control of switch machines, solenoids, relays, or logic devices from the handheld transmitter. Either twin coil or motorized switch machines may be controlled. Models KAR-104T and KAR-108T control four or eight twin coil switch machines. Models KAR-104M and KAR-108M control motorized switch machines. Locolinc's unique design also provides for "Dispatcher Switching" control of multiple turnouts at one time. Groups of two to four turnouts can easily be operated from the handheld transmitter.

Each Locolinc Transmitter comes ready to use. Simply insert a 9V battery. There is no other assembly, installation, or power supply needed. Because of Locolinc's unique design, transmission occurs only when a change of speed, direction, or state is commanded. Since there's no continuous transmission, battery life is prolonged and multi-transmitter interference is minimized.

Locolinc is simple, but also very smart.

To control any locomotive or accessory from the cordless transmitter, enter the 2- or 3-digit address you assigned to it, such as the number 12, just as you might use a touch telephone. You now have the receiver's attention to turn the device on, change its direction, stop it dead in its tracks, or change its speed gradually or rapidly.

You can now enter the address of the next device you want to control. Meanwhile, the first receiver remembers the last command you gave it and continues to obey that command until you change it.

Locolinc gives you independent control of all locomotives, even if they share the same track. At the same time, you can make a group of locomotives work in unison by using MU mode.

MU, multiple unit operation, is simple and straightforward with Locolinc. A maximum of five mulitple unit trains can be controlled; each train consisting of up to four locomotives. To ensure correct operation, engine orientation is handled at MU setup on the transmitter.

Each locolinc receiver provides directional lighting outputs. The 2 Amp and 5 Amp receivers provide three additional outputs, controlled by the transmitter, to trigger such items as a bell, whistle, auxilliary devices, etc. And each Locolonc Locomotive Receiver has its own built-in short circuit and thermal overload protection.

Nothing comes close to Locolinc's versatility.

Locolinc lets you share the fun. While one transmitter is powerful enough to control an entire club layout, any number of transmitters can be used and devices can be split up by simply handing out a list of device numbers to each participant. And, if a club member has a Locolinc transmitter for his own layout, he can bring it to the club to help control the club's layout, in addition to his own locomotives.

A Locolinc transmittter is so flexible it even crosses the gauge barrier, working with all popular direct current gauges – N-Scale through G-Scale.

that's easy to operate, install, and own.

ADDRESS FAULT INDICATOR.

The address fault indicator displays a "1" in the upper left corner of the LCD when an invalid address is entered.
Valid Addresses:
KT-16: 01-16, **KT-32:** 01-32, **KT-64:** 01-64.
Addresses outside of the allowable range will cause a fault display and prevent the controller from transmitting information.

LO BAT INDICATOR.

"LO BAT" appears in the lower left corner of the LCD when the battery voltage falls below approximately 7 Volts.

ADDRESS BUTTONS.

Each locomotive must have a two-digit, user selected address. Each accessory unit requires a three-digit address.

To select the address follow this format:
LOCOMOTIVE: Enter the two-digit address of the locomotive to be controlled.

ACCESSORY: Enter the two-digit address of the accessory receiver plus the third digit for the individual accessory to be controlled. The third digit automatically appears as the digit to the right of the decimal point in the LCD display. Three digits must be entered each time for an accessory unit.

BATTERY COMPARTMENT.

Slide the compartment door open to access the 9V battery.

TELESCOPIC ANTENNA.

Antenna should be fully extended for optimum performance.

LIQUID CRYSTAL DISPLAY (LCD).

Locomotive or accessory address entered is shown on the LCD. Other display indicators identify speed, low battery, and address fault conditions.

SPEED INDICATOR.

In locomotive mode, the digit to the right of the decimal point indicates percent of full throttle. A "3," for example, indicates 30% of full throttle.

TRANSMIT INDICATOR.

SPEED SWITCHES.

Locomotive speed is controlled by depressing the increase speed (^) or decrease speed (v) buttons. Speed can be changed in small increments, or more quickly by holding the button depressed for a few seconds.

DIRECTION SWITCH.

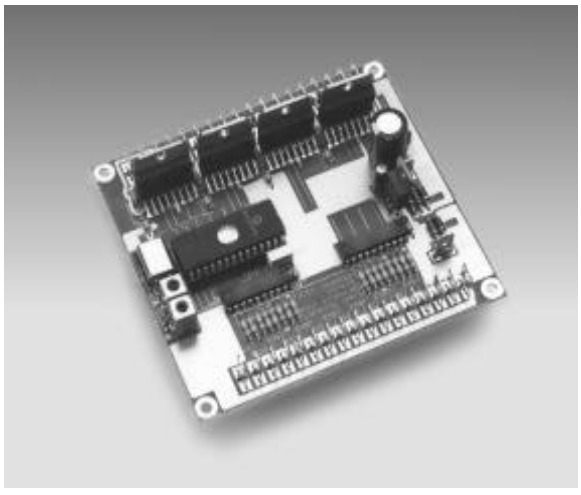
Control the direction of a locomotive by placing the direction switch in forward (fwd) or reverse (rev) position. The state of an accessory device is controlled by toggling this switch left or right to achieve the desired state.

MODE SWITCH.

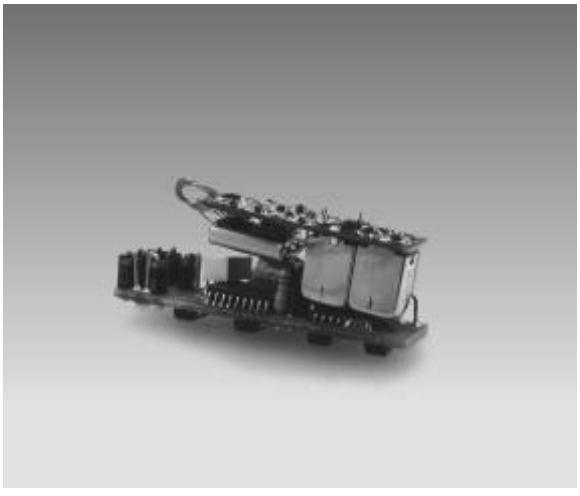
The transmitter's mode of operation, either locomotive or accessory, is set by this switch. To control a locomotive, place the switch in the "loco" mode. To control accessories, place the switch in the "acc" mode. For an emergency stop, place the switch in the "stop" position.

POWER SWITCH.

Slide switch upward to turn the unit on. Slide switch downward to turn off.



KAR-108T Accessory Receiver controls up to eight twin coil switch machines.



KLR-101 1 Amp Locomotive Receiver. See Specifications for receiver sizes.

SPECIFICATIONS

TRANSMITTERS	KT-16	KT-32	KT-64
Single locomotives	16	32	64
MU trains (max. 4 locomotives/train)	3	3	5
Accessory devices	64	128	256
Dispatcher switching (number of groups, 2 to 4 turnouts/group)	1	2	4
Address keypad	Yes	Yes	Yes
3-1/2 digit LCD	Yes	Yes	Yes
9V battery	Yes	Yes	Yes
Range	150' (45.72M)	150' (45.72M)	150' (45.72M)
Frequency	75.410MHz	75.410MHz	75.410MHz
Size: 1.75" x 2" x 7" (4.45cm x 5.08cm x 17.78cm)	X	X	X
Weight: 1.75 lbs (0.35Kg)	X	X	X

LOCOMOTIVE RECEIVERS	KLR-100S	KLR-101	KLR-102	KLR-105
Input voltage	6-12V d.c.	12-14V d.c.	12-18V d.c.	12-18V d.c.
Battery operation	Yes	Yes	Yes	Yes
Output current, continuous (d.c.)	200mA	1A	2A	5A
Short circuit protection	Yes	Yes	Yes	Yes
Overtemp shutdown	Yes	Yes	Yes	Yes
Directional lighting	Yes	Yes	Yes	Yes
Additional outputs (5V logic)	N/A	N/A	3	3
Size	C	A	B	B

A: 0.55" x 2" x 0.5" (1.4cm x 5.08cm x 1.27cm)
B: 1.15" x 2.8" x 0.8" (2.92cm x 7.11cm x 2.03cm)
C: 1.375" x 2" x 0.7" (3.5cm x 5.08cm x 1.78cm)

ACCESSORY RECEIVERS	KAR-104M	KAR-104T	KAR-108M	KAR-108T
Twin coil switch machines	No	4	No	8
Motorized switch machines	4	4	8	8
Accessory lamp outputs	8	8	16	16
Output current, maximum	1A d.c.	2A d.c.	1A d.c.	2A d.c.
Pulsed output	Yes	Yes	Yes	Yes
Input voltage	12-18V d.c.	12-18V d.c.	12-18V d.c.	12-18V d.c.
Output connectors (11 pins each)	2	2	4	4
Size	D	D	E	E

D: 2.7" x 4.4" x 0.8" (6.86cm x 11.18cm x 2.03cm)
E: 4" x 4.4" x 0.8" (10.16cm x 11.18cm x 2.03cm)

Get on track today with a complete LOCOLINC® package.

Locolinc is available in two package configurations. Expand your layout control by simply adding receiver modules. All Locolinc products are available individually. Receivers are also available in cost-saving multi-unit packs.

STANDARD PACKAGE: One transmitter*, two loco receivers, one accessory receiver.
LOCO PACKAGE: One transmitter*, four loco receivers.

*Select from KT-16, KT-32, KT-64 Transmitters.

Keithco

realism through electronics

Keithco, Inc.
4 Walking Woods Drive
P.O. Box 1806
Lake Oswego, OR 97035

Phone: 503/635-7604
Fax: 503/ 699-0434