

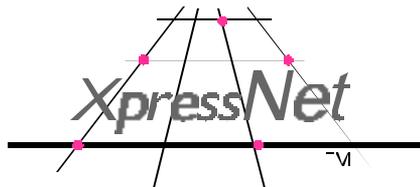
The LI100F is used to connect your Lenz DIGITAL plus or other XpressNet based system to a computer. Using this interface, all functions of the system are available to computer programs. The LI100F has a RS232 interface for computer connection and a **LMAB** connector for connection to any XpressNet based system.

- * Supports 9600 and 19.2 Kbits/second communication

LI100F-NA XpressNet Computer Interface

Art. No. 23100
Revised 11/01

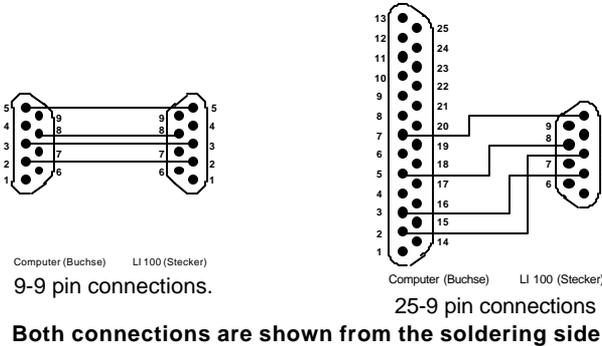
Digital
plus
by Lenz TM



Information on the LI100F-NA Computer Interface

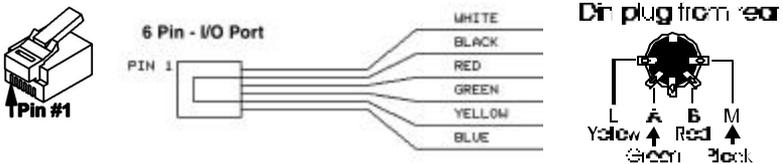
Connecting the LI100F to a PC

Enclosed with the LI100F is a 9 pin RS232 cable which can be plugged into the LI100F and any computer RS232 9 pin connector. If your PC has an older 25 pin RS232 connector then an adapter will need to be purchased from an electronics supplier such as Radio Shack or made as shown in illustration 1. Be careful if you use ready-made 9-pin to 25-pin adapters! Not all adapters connect all the necessary pins with each other!



Connecting the LF100 to XpressNet

To connect the LI100F to an XpressNet port, you connect the **LMAB** connectors directly to the XpressNet wires or to the **LMAB** screw terminals on the LZ100 or LA152 adapter being careful not to reverse any wires.



Pin #	Port A	Port B	Description
Pin 1	White	N/C	"C" Control Bus Connection
Pin 2	Black	Black	Ground "M"
Pin 3	Red	Red	- RS-485 "B"
Pin 4	Green	Green	+ RS-485 "A"
Pin 5	Yellow	Yellow	+12 volts "L"
Pin 6	Blue	N/C	"D" Control Bus Connection

Setting the LI100F XpressNet address

Each and every XpressNet device must have its own unique XpressNet address. The factory default LI100F XpressNet address is 31. If you would like to modify the LI100F XpressNet address, open the housing of the LI100F and you set the DIP switch to the circuit board according to the following table.

DIP1	DIP2	DIP3	Address
OFF	OFF	OFF	31
OFF	OFF	ON	30
OFF	ON	OFF	29
OFF	ON	ON	28
ON	OFF	OFF	27
ON	OFF	ON	26
ON	ON	OFF	25
ON	ON	ON	24

Please remember that each XpressNet address can only be used once. Address 29 is reserved for the translation module LC100, use this address for the LI100F only if you do not have an LC100.

Data communication between the PC and the LI100F

For the data communication between the LI100F interface and the computer two baud rates are possible: 9600 and 19.2K Baud. The adjustment of the baud rate takes place at the DIP switch #4. By the factory default is 9600 bits/second.

9600:	DIP4 on OFF
19200:	DIP4 on ON

The LI100F uses the CTS Hardware handshake for communications from the PC to the LI100F and uses the following additional data communications parameters.

Data bits:	8 data bits
Stop element:	1 stop bit
Parity:	no parity bit

The CD included with the LI100F

Several demo versions of popular software programs for the control of your model railroad are included with the LI100F in the software demos directory. The software vendors provided these demo programs to us for your use. Lenz electronics cannot guarantee the function of these programs and also is not prepared to answer specific questions on the installation and operation of these programs. For further information please contact the vendors directly.

RAILROAD&CO.	http://www.freiwald.com/
Train Tools	http://www.traintools.com/
WinDigital	http://www.abbinksoftware.de/
WinLok	http://www.digitoy-systems.com/

The detailed description of XpressNet communication protocol used by the PC and LI100F is included in a pdf document in the manuals section on the enclosed CD. File name: "manuals/XpressNet/XpressNet.PDF".

North American Warranty

Lenz GmbH does everything it can do to ensure that its products are free from defects and will operate for the life of your model railroad equipment. From time to time even the best-engineered products fail either due to a faulty part or from accidental mistakes in installation. To protect your investment in Digital Plus products, Lenz GmbH offers a very aggressive 10 year Limited Warranty.

This warranty is not valid if the user has altered, intentionally misused the Digital Plus product, or removed the product's protection, for example the heat shrink from decoders and other devices. In this case a service charge will be applied for all repairs or replacements. Should the user desire to alter a Digital Plus Product, they should contact Lenz GmbH for prior authorization.

Year One: A full repair or replacement will be provided to the original purchaser for any item that that has failed due to manufacturer defects or failures caused by accidental user installation problems. Should the item no longer be produced and the item is not repairable, a similar item will be substituted at the manufacturers discretion. The user must pay for shipping to an authorized Lenz GmbH warranty center.

Year 2 and 3: A full replacement for any item will be provided that has failed due to manufacturer defects. A minimal service charge for shipping and handling costs will be imposed. Should the item no longer be produced and the item is not repairable, a similar item will be substituted at the manufacturer's discretion.

Year 4-10: A service charge to include repair, shipping and handling will be placed on each item that has failed due to manufacturer defects and/or accidental user installation problems. Should the item no longer be produced and the item is not repairable, a similar item will be substituted at the manufacturers discretion.

A return authorization number is necessary for warranty service. Please contact a Lenz Service Center to receive this number and give the required information.

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FC This equipment complies with Part 15 of FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CE Please save this manual for future reference!

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