LAKEWOOD SYSTEMS LTD.

IP-X
STANDARD INPUT PLUG

USER GUIDE

NOTE: Fully test all datalogging and associated equipment before field installation.

LIMITATION OF REMEDIES

In no event will Lakewood be liable to any party for any damages, including any lost profits, lost savings, or other incidental or consequential damages arising out of the use or inability to use such equipment or related software, even if notice has been made of the possibility of such damages.

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INTRODUCTION

The IPX is a unique input plug with spring terminals to allow easy hookup of 0 to 2.5 volt voltage output transmitters or status switch contact sensors. The other end has a connector that will connect to an RXP External Plug Assembly. This allows easy connection to many Lakewood Systems products such as the RX Data Storage Unit and Data Pac. The spring terminals are also protected from the environment by use of a Rubber Boot Cover. The IPX features a quick response time (35 milliseconds), no power consumption, wide operating temperature range and sensor excitation if needed. This makes the IPX perfect for interfacing to voltage output sensors or status switch contact type sensors.

STANDARD INPUT PLUG (IP-X)

TERMINAL ASSIGNMENTS

   The four colored spring terminals are used to connect the sensor. If the sensor does not need excitation power, only two of the terminals are used. The first spring terminal (1 black) is common ground. The second spring terminal (2 green) is an analog input or switch contact input. It has a 0 to 2.5 volt input range when connected to an RXP that is wired to an analog input on the Datalogger. The IPX is connected to a normally open switch contact when the RXP is wired to the Strobe input or a Parallel input on the Datalogger. The next two spring terminals (3,4)offer excitation for the sensor. The third spring terminal (3 white) is a precision 2.500 volt excitation output. This output has minimal drive capability (5 miliamperes maximum). The power is pulsed on for a short duration then turned off. The length of the on time power pulse can be set when programming the Datalogger in the config section of Prolog Datalogger Software. The fourth spring terminal (4 red) is a B+ switched output. The voltage level of the B+ terminal depends on the battery system being used with the Datalogger. The on-time is the same as that for the 2.500V precision excitation output.

COLORED TERMINAL ASSIGNMENTS

   NOTE: Be sure the spring terminal is fully open before inserting the wire. A small tug on the wire after tigtening can assure the wire is secure.

USING THE RUBBER BOOT COVER

The rubber boot cover can be used to keep the spring terminals protected from the environment. To use the cover tighten the tywrap on the closed end of the boot around the wire.

TYWRAP ON BOOT

Once you have clamped the wires down and returned the rubber boot cover from its inside out position, you can slide the rubber boot over the spring terminals.

SEALED BOOT