

Irrigander[®] Surge Suppressor

Installation & User Guide Model LSS2 V1.0 Kit



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Installation

1. If the field cable length between the **Irrigander** Encoder and the **Irrigander** Decoder is less than 600 feet, install the **Irrigander Surge Suppressor** as close to the midpoint of the field cable as possible but not more than 300 feet from either the Encoder or the Decoder. If the field cable length is over 600 feet, install the necessary number of **Irrigander Surge Suppressors** so that there is no more than 300 feet between the Encoder, the first **Irrigander Surge Suppressor**, the next **Irrigander Surge Suppressor** and the Decoder.
2. Connect the White wire from the **Irrigander Surge Suppressor** to the field common wire using a waterproof wire connector (e.g. DryConn[®] Waterproof Connector).
3. Connect the Red wire from the **Irrigander Surge Suppressor** to the second field wire using a waterproof wire connector.
4. If a metal pipe is available at the **Irrigander Surge Suppressor** location, connect the Green or Blue wire from **Irrigander Surge Suppressor** to the metal pipe using a suitable grounding clamp.
5. If a suitable ground is not present at the **Irrigander Surge Suppressor** location, install an 8' copper clad ground rod (not included) close to the **Irrigander Surge Suppressor**. Connect the Green or Blue wire from **Irrigander Surge Suppressor** to the ground rod using a copper clamp.

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Surge Protection

Just like any other field installed electronic device, surge protection is vital to the reliable operation of the **Irrigander** 2-wire technology irrigation expanders. The **Irrigander** 2-wire technology Encoders and Decoders use metal oxide varistor (MOV) surge suppression technology to minimize the potential damage from lightning and other electrical surges. However proper installation of the **Irrigander** 2-wire technology irrigation expander will greatly improve the system's surge protection:

1. Make sure the irrigation controller is properly grounded. See the irrigation controller's installation manual for instructions applicable to your controller. Irrigation controllers installed outside must be grounded per the requirements of the National Electrical Code and local ordinances.
2. Install one or more **Irrigander Surge Suppressors** as described in this manual.
3. If a metal pipe is available at the **Irrigander** 2-wire technology Decoder location, connect the Earth Ground (Decoder Green or Blue) to the metal pipe using a suitable grounding clamp.
4. If a suitable ground is not present at the **Irrigander** 2-wire technology Decoder location, install an 8' copper clad ground rod (not included) close to the Decoder. Connect the Earth Ground (Decoder Green or Blue) from the Decoder to the ground rod using a copper clamp.

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Specifications

Physical Dimensions

	Width	Height	Depth
Surge Suppressor	1.8"	1.1"	0.8"

Note that the width dimensions include mounting flanges.

Operating Range

The **Irrigander Surge Suppressor** will provide effective protection to electrical surges including lightning within a 300 foot radius.

Environmental Specifications

Operating: -20°C to +50°C (-4°F to +122°F)

Non-Operating: -40°C to +70°C (-40°F to +158°F)

The **Irrigander Surge Suppressor** is designed for harsh environments and is suitable for most outdoor conditions including wet environments. However the **Irrigander Surge Suppressor** should not be placed where it is operated under water.

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Limited Warranty

DUWA PRODUCTS LLC, hereinafter referred to as the manufacturer, warrants the **Irrigander Surge Suppressor** to be free from defects in workmanship and materials for 1 (one) year from the date of sale. In order for this warranty to apply the **Irrigander Surge Suppressor** must be installed and used according to the installation instructions herein and cannot be altered in any way. This warranty covers damage from electrical surge (including lightning) providing that the **Irrigander Surge Suppressor** is installed with a suitable earth ground as described herein. The use of the **Irrigander Surge Suppressor** for any purpose for which it was not intended voids this warranty. Purchaser's rights under this warranty shall consist solely of requiring manufacturer to repair, or in manufacturer's sole discretion replace, free of charge, F.O.B. factory, any defective items received at said factory within 1 (one) year and determined by manufacturer to be defective. To exercise your warranty, return the unit to your dealer with a copy of the sales receipt.

This warranty is in lieu of all other warranties, expressed, implied, or statutory as to merchantability, fitness for purpose sold, description, quality, or any other matter and limits the manufacturer's liability for damages to the cost of the product. In no event shall manufacturer be liable for special or consequential damages or for delay in performance of this warranty. This warranty gives the purchaser specific legal rights, and the purchaser may have other rights, which vary from state to state.

How to Contact us:

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