

# Surge Protection Decoder

Lightning surge protection decoders for irrigation



## Surge Protection Decoder Specification

The Light Surge Protection Decoder is a vital component in a two-wire decoder irrigation system, designed to shield the system from electrical surges. This device helps prevent damage to the irrigation control components caused by voltage spikes, ensuring reliable operation and longevity of the irrigation management system.

	Surge Protection Decoder
<b>Electric input</b>	
Nominal voltage	42V peak from 2-wire
Minimum voltage	N/A
Standby current	0.0mA @ nominal voltage. Passive device
Wire size	1.5mm <sup>2</sup> solid copper
Insulation	PVC
Built-in heavy-duty lightning protection	Yes
Wires	2 (Blue)
<b>Surge protection</b>	
Max surge current	25kA @ 8 / 20μs: 1 operation 20kA @ 8 / 20μs: 10 operations
Wires	2 (Yellow/Green)
Wire size	1.5mm <sup>2</sup> solid copper
Insulation	PVC
Connection	To a ground rod / plate with less than 50Ω
Max distance	Every 150m and at end of the 2-wire line
<b>Environment</b>	
Operation	0 up to 60°C / 32 to 140°F
Storage	-20 to 70°C / -4 to 158°F
Humidity	100%