

# TECHNICAL SALES DIRECTIVE

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## Decoder Surge Protectors

November 2017

GTI-TSD-036-1117-GB

Distribution Regions: All Regions

Product Relevance: PC, EC,

For use by: Distributors, Consultants, Contractors.

**Bailoy recommend they are contacted prior to any installation of additional surge protection on GTI systems, to establish installation will be of benefit to the site.**

### Introduction

Bailoy have made available two Decoder Surge Protectors. One for the GTI Gemini system (GEM-DSP) and one for the GTI Trident system (TRI-DSP).

GTI Decoder systems already have a high tolerance to surge damage due to design features already built in to the system. But in certain locations, where there is an exceptionally high surge rate, GTI decoder systems may benefit from additional protection provided by the installation of DSP's.

Both surge protectors are identical, except the Trident which has a green wire to protect the additional core in the control cable (CSG)

### Installation:

- The surge protector must be connected to an earth rod or plate, which is installed within a 2m radius of the surge protector.
- The resistance to earth must be less than 30Ω.
- DSP's must be installed at maximum 200m intervals.
- The DSP must be installed close to the decoder location to be most effective.
- Install a minimum of 6 surge protectors per control cable (CSG)

## Connection diagram

Note:

The green wire in the control cable, and for the DSP, is only available in Trident systems

