

DECODERS

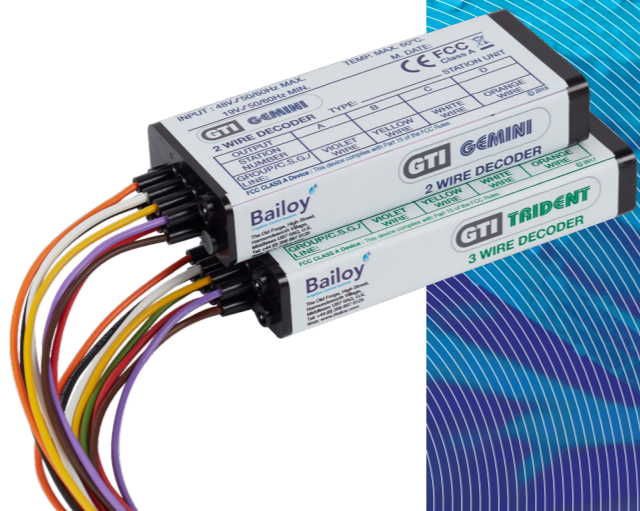
Designers and manufacturers of



DECODER OVERVIEW

Since the early 1980s we have designed and manufactured decoders for irrigation systems. These have been installed in hundreds of sites over the last four decades, with many still used to this day. We are very proud that they are widely recognised for their reliability and unique enclosure design.

We currently manufacture the Gemini decoder for use with 2-core control cables and the Trident decoder for use with 3-core control cables, with both types being available in multiway versions.



RELIABLE
DECODERS

UNIQUELY ENGINEERED

Bailoy decoders uniquely regulate the output voltage ensuring the solenoid is not supplied with a voltage higher than that specified by the manufacturer.

This also reduces potential cable losses (volt drop), which in turn can reduce cable costs (no need to select a control cable with a larger cross-sectional area for the first part of the cable run). The GTI decoders have a voltage range much higher than others, from 19 to 48Vac.

Specially designed cable entries help prevent water ingress. The combination of these and multi-stranded wires, help prevent breaks that frequently happen with solid wires used by other manufacturers.

Potted with a compound chosen for its ability to protect the decoder from extremes of heat and cold while still allowing all the components to do the job they were designed for.

And finally, a fixing tab is fitted to allow the decoder to be neatly installed.

REGULATES
OUTPUT
VOLTAGE



BACKWARDS COMPATIBLE

Bailoy decoders have always been designed to be fully backwards compatible with previous models. This allows them to be installed together with, or to replace all, previous Bailoy manufactured Gemini, Trident, SC3000 and CDS-DIU decoders previously licensed to third parties. These are easily recognised by the familiar unique enclosure design.

This compatibility allows for managed replacement (or reinstallation on another control cable) as budgets allow, or when the older decoder fails.

Later models allow the user to irrigate more stations simultaneously (in conjunction with GTI V3 software).



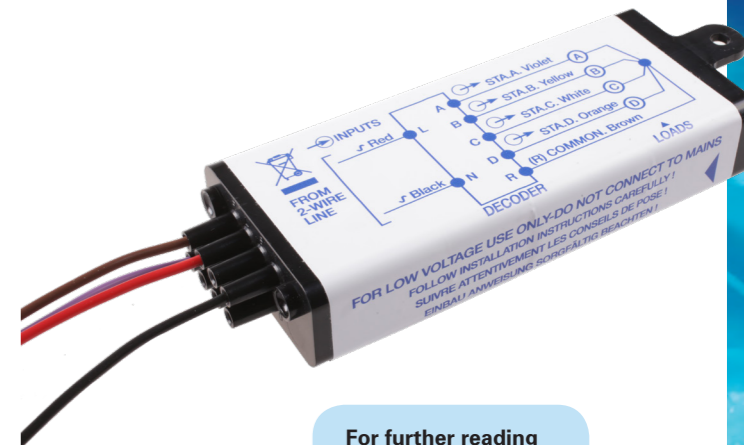
GEMINI DECODERS

GTI Gemini decoders can be used with all Gemini systems and are capable of controlling up to 109 different stations per control cable.

Features for Gemini decoders

- Built-in surge protection
- Multi-way decoders available
- Suitable for 2-core control cables
- Compatible with all previous Bailoy manufactured Gemini decoders
- Regulated output voltage
- Can be installed together with, or to replace all, previous Bailoy-manufactured Gemini decoders, Watermation TW1 and TW2 and other selected LPD decoder makes

BACKWARDS COMPATIBLE



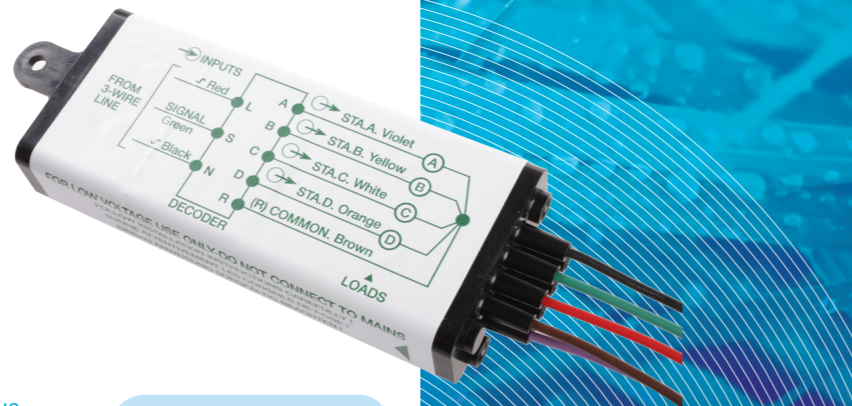
For further reading
see bulletins
[GTI-TB-040](#)
[GTI-TSB-043](#)
Ask for details.

TRIDENT DECODERS

GTI Trident decoders can be used with all Trident systems and are capable of controlling up to 114 different stations per control cable.

Features for Trident decoders

- Built-in surge protection
- Multi-way decoders available
- Suitable for 3-core control cables
- Compatible with all previous Bailoy-manufactured Trident decoders
- Regulated output voltage
- Can be installed together with, or to replace all, previous Bailoy-manufactured Trident decoders, SC3000, CDS-DIU and other selected LPD decoder makes



For further reading
see bulletins
GTI-TSB-022
Ask for details.

OTHER DECODERS

Sub-pump decoder for Trident systems

This decoder switches on the output while stations operated from the same control cable are irrigating. A typical application for a sub-pump decoder is to operate a booster pump.

Master valve decoder for Gemini and Trident systems

The master valve decoder is used to control a set of pumps installed remotely from the DOUs (these are the controllers associated with the GTI PC systems). It can be seen as a remote pump start relay contact as found inside the DOU.

For further reading
see bulletins
GTI-TSB-020 (sub-pump)
GTI-TSB-024 (master valve)

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