



TIC Irrigation Controls

Irrigation Decoder Expertise

Product Instructions – FIELDSWITCH Hand Held Decoder Programmer/Tester



Introduction

The TIC FIELDSWITCH programmer/tester has been designed with ease of use as a priority. Second to this we have made it compatible with as many 2 wire decoder types as possible.

This product provides a previously unavailable level of convenience for programming 2 wire decoders, as it eliminates the need for a mains supply, or cumbersome power suppliers and/or inverters that need vehicle power supplies to operate.

Power consumption has been optimised so as to give substantial battery life from 2xAA batteries, a single set will last most installers a whole year.

Quick Start

Install the batteries in the compartment on the back of the unit. Be careful to observe correct polarity. The unit will tolerate battery miss-insertion, as the mechanical arrangement prevents the batteries from actually connecting. The unit will power-up and briefly display the software version number. The display then reverts to the 'normal programming screen' which allows the user to program decoders. The unit will power-off after approx 20 secs of inactivity.

Attach the decoder to be programmed to the four croc clips, matching wire colour to the croc clip colour. Wire colour mistakes and short circuits will not harm the unit, but will give errors that will be displayed on the screen. For multiple output decoders, be sure to attach the solenoid/valve wires associated with the channel that you wish to program.



These buttons allow the user to change the address to be programmed into the decoder.



The PROG (Enter) button writes the displayed address to the decoder attached. Once programmed the decoder is tested at the programmed address. Any errors are reported on-screen (see below).



The TEST (Escape) button tests the attached decoder. The address showing on-screen is tested first, before the whole range of possible addresses is scanned. A successful test will be indicated on-screen together with the address that actually responded. The scan of addresses can be interrupted by pressing any key.

The TEST (Escape) key is also used to turn the unit ON after it has automatically powered OFF.

Normal Operation (Please read 'Quick Start first)

POWER

The unit powers-off after approx 10 secs of no-activity. A simple press of the TEST (Escape) key will power-on the unit. When the unit is OFF it consumes a very small amount of power (Less than 3uA). If the unit is to be left for 3 months or more, it is recommended that the batteries be removed.

DECODER TYPE

Pressing both INC and DEC buttons together whilst the 'normal programming screen' is displayed, causes the unit to enter a menu mode. In this mode it is possible to determine the decoder type that is attached. Press PROG (Enter) to ask the unit to read the decoder type.

Possible decoder types are :- (All trademarks acknowledged)

UI Landscape

Tonick Original

Tonick 'Stubby'

TIC FieldSwitch Watermaton

TIC FieldSwitch TG compatible

TIC LandSwitch (UI Landscape compatible)

Once the decoder has been identified, the type is displayed together with the channel number. **Please note that the address for the decoder channel attached is reset to address 1.** The user is warned about this with a message on-screen. Pressing TEST (Escape) will return to the 'normal programming screen'.

PROG

Pressing the PROG (Enter) whilst the 'normal programming screen' is displayed will program the attached decoder to the displayed address. For multiple output decoders, the user must ensure that the correct wires are attached to the yellow croc clips. The PROG sequence first identifies which channel is connected, and then writes the displayed address to that channel. Once written, the decoder channel is tested at that address.

Errors are displayed on screen.

'SHORT' There is a short circuit between 2 or more of the croc clips.

'ERROR' A programmable decoder type was not detected.

'FAIL' The decoder failed to respond to its newly programmed address.

Please note that TIC "FieldSwitch" decoders will program much more quickly than other types due to an enhanced algorithm implemented within our decoders.

TEST

Pressing TEST (Escape) whilst in the 'normal programming screen' is displayed will test the attached decoder. The sequence first identifies which channel is connected. The decoder is then tested at the displayed address. If this fails, then the range of all possible addresses are tested. Pressing any key during this sequence will abort the scan. If no response is seen, then a FAIL message is displayed.

WARRANTY

The TIC 2 wire programmer/tester is warranted for 12 months against faulty parts of workmanship. In the event of failure, please return the unit to your supplier, or direct to TIC if the unit was purchased from us.

The warranty does not cover misuse or undue wear and tear, and is limited, in all events, to repair or replacement at TIC discretion.

Manufactured in Europe by



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