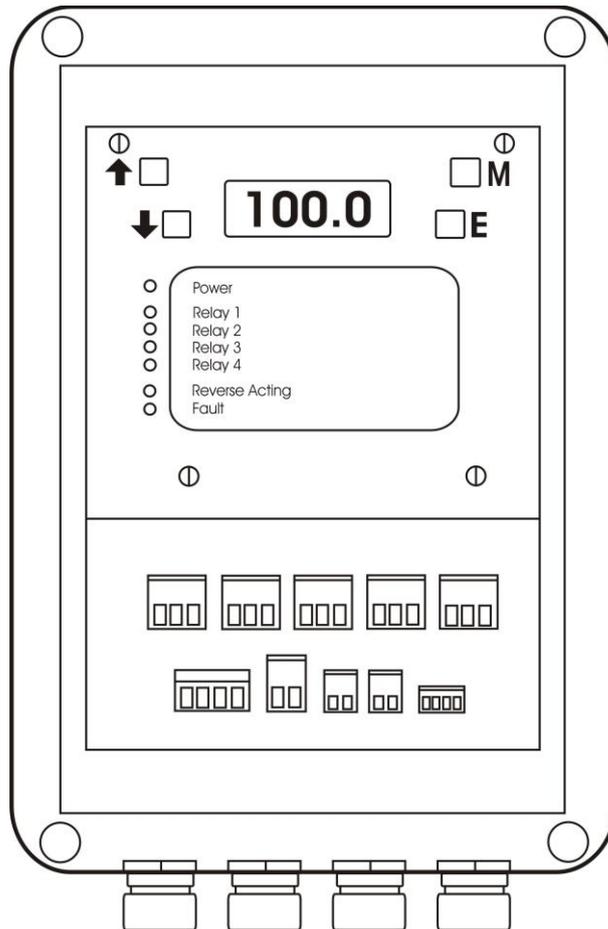


# OPERATING AND INSTALLATION INSTRUCTIONS

## FLEXILEVEL 3 Indicator and Controller



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## 1. Introduction

The FLEXILEVEL 3 (FXL3) when used with a tank sensor<sup>1</sup> will provide digital indication of a tanks liquid level or volume. The FXL3 standard model is designed to operate with a linear tank shape i.e. a linear depth gives linear volume or output. For nonlinear applications see the FXL3NL operating instructions.

The FXL3 has four independent relays that are user programmable over the range being measured. A fifth relay is available to indicate system power failure. Isolated retransmission current and voltage signals are available to drive external digital and analogue indicators such as PLC and BMS systems. The FXL3 is user programmable via four pushbuttons. A user access code can be programmed to restrict unauthorised access to the program menus.

<sup>1</sup>The tank sensor is usually a 2 wire loop powered device that operates with 24VDC supplied from the FXL3. Hawker tank sensors include the MiniSonda, Flexicap and submersible pressure transmitters.

## 2. Installation

This manual should be read in its entirety before installation.

The crossed-out bin symbol sticker placed on the product reminds you of the need to dispose of the product correctly at the end of its life.

The product contains NO USER SERVICEABLE PARTS. Repair of this controller shall only be carried out by the manufacturer or their authorised agent.

The FXL3 Controller must only be installed by suitably competent personnel who have the necessary experience in installation and commissioning of instrumentation and are familiar with the relevant codes of practice.

This product has been designed for use in industrial level control applications. It is the user's responsibility to ensure the suitability of the equipment for the application, including any external interface or connected equipment and wiring (risk assessment).

### 2.1 Mounting and application environment

1. The FXL3 must be installed in the plastic enclosure it is supplied with and should be fixed to a solid background. The enclosure has provision for 4 mounting screws in its outer corners which are accessible when the lid is removed. See the data sheet for the mounting-hole requirements.

2. The controller is not intended to be fitted outdoors in direct sunlight or where power washing, rain or other liquid ingress, or chemical corrosion, may occur. The controller may be further installed inside a control panel or other protective housing if required.
3. The maximum operating temperatures must be taken into consideration. Adequate spacing with an air gap should be provided along with ventilation or cooling where necessary. To get the best performance do not install in environments with large temperature swings.
4. The product should be protected against mechanical impact.

## 2.2 Cleaning and maintenance

1. Cleaning is not usually required but if necessary the power should be disconnected and the outer enclosure lid cleaned with a damp cloth and mild detergent. Check any cleaning agents are suitable for the enclosure material before use. Ensure the product is completely dry before reapplying the power.
2. Maintenance is generally not required but visual inspection and calibration check can be performed in-line with the sites maintenance plan if required.

## 2.3 Electrical connections – Terminal block descriptions



1. The electrical installation should comply with the relevant regulations for the application, environment and location it is being installed. Electrical cables should be selected to meet both the application and product requirements. A 3A max fuse is recommended for the power supply to the product, and up to 4A max for the relay contacts. See the product datasheet technical specifications.
2. This product requires a protective earth conductor  if it is being powered from ac mains (hazardous voltage) and/or switching hazardous voltages through the relay contacts.
3. The user connections are only accessible when the products lower trim is removed (Important: 2 lowest screws only, do not remove the upper trim). Before removing the trim turn OFF the power to the product and relay contacts, only re-apply power after the trim has been refitted.

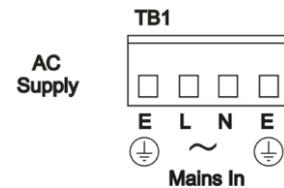


The user connections are all plug in types. All wiring should be terminated and connections checked before power is applied to the product. It is recommended that cable identifiers are attached to the cables that reference their function or termination. To reduce noise interference it is important to

keep low voltage signal cables away from hazardous voltage and high current cables. The FXL3 comes with several factory fitted cable glands attached; the user can fit additional glands if required, unused glands can be sealed to maintain the box integrity. Care should be taken not to damage the PCB if drilling the box.

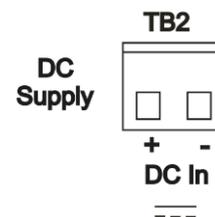
### Mains Input Connector (TB1)

Use this connector if the product is being powered from mains ac supply. This is 230V or 110V depending on the product ordered, check the product label. L=Live, N=Neutral, E=Earth. TB1 has two earth connections that are internally linked on the PCB, the user is only required to connect a protective conductor to one of the terminals. All other terminals are isolated from earth.



### DC In (TB2)

Use this connector if the product is being powered from 24VDC supply. + Positive and - Negative.



### Notes: For both AC and DC powered products

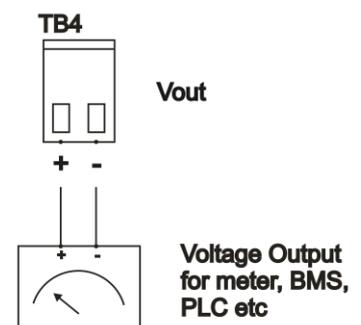
The electrical supply should be provided via a local fused isolator.

The input power supply should be connected to TB1 (ac) or TB2 (dc) but not both.

When powering the product from DC and the user is switching hazardous voltages through the relay contacts a protective conductor should be connected to TB1 earth connection.

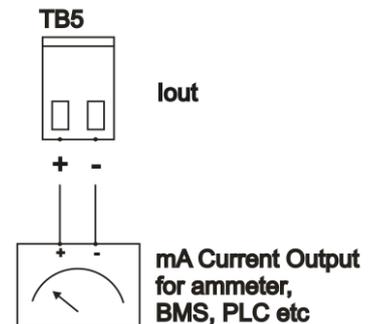
### Vout (TB4)

Retransmission output signal voltage. This voltage output is linearly proportional to the value displayed on the LCD e.g. Tank Level and can be used to drive external equipment. The external load should require a voltage input and be high impedance. Multiple loads should be connected in parallel, see retransmission drive specification in data sheet for load resistance etc.



## lout (TB5)

Retransmission output mA current. This current output is linearly proportional to the value displayed on the LCD e.g. Tank Level. This current can be used to drive external equipment. The external load should require a mA current input and be low impedance. Multiple loads should be connected in series, see retransmission drive specification in data sheet for load resistance etc.



## Input (TB3)

mA current input signal to the FXL3, this connects to the tank sensor. The tank sensor output should be in the range of 0 to 25mA. There are two types of sensor which are detailed below. The 2-wire loop powered is the most common due to its simplicity and performance.

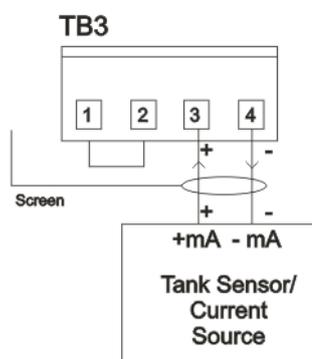
### 1. Loop Powered Tank Sensor (2-wire)

If the tank sensor is loop powered (2-wire) the FXL3 can provide its power. In this case link TB3 pins 1&2, connect TB3 pin3 (+mA) to the tank sensor + connection, connect TB3 pin4 (-mA) to the tank sensor - connection.

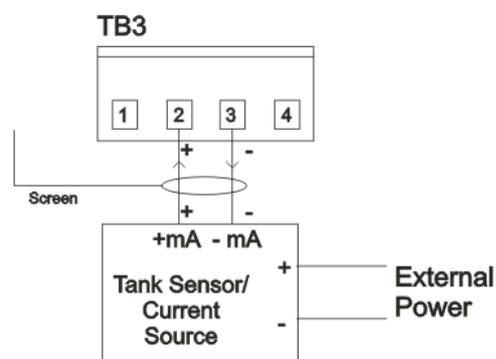
### 2. Externally Powered Tank Sensor (4-wire)

If the tank sensor is not loop powered i.e. 4-wire it will require external power. In this case provide external power to the tank sensor as per its instructions, then connect TB3 pin2 (+mA) to the tank sensor +mA connection, connect pin3 (-mA) to the tank sensor -mA connection. FXL3 TB3 pins 1&4 are left unconnected.

### 2- wire Loop Powered Input



### Externally Powered Input



**Note:** If a screened cable is used the screen is typically connected to the Earth terminal at the FXL3 end only, this is usually for EMI purposes in a noisy environment. If the application requires an isolated

shield (not connected to earth) it can be connected to TB3 pin 4 (-mA). If using an externally powered device see its specific instructions regarding the screen connection.

### Relay Contacts Relay 1, 2, 3, 4 and Fault Relay (TB6, 7, 8, 9 and 10)

Single pole changeover volt free contacts are provided to operate external equipment.

#### WARNING

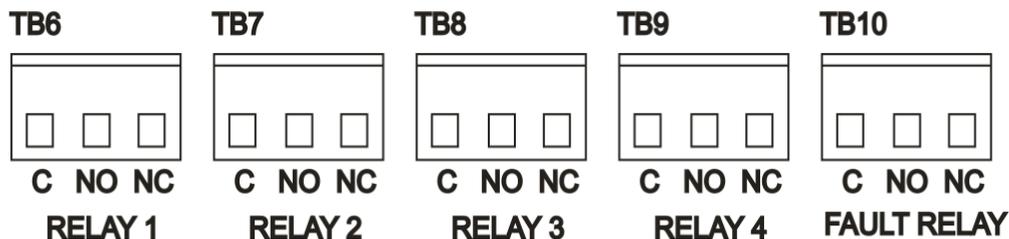
Do not switch a mix of hazardous and safe voltage levels through the FXL3 internal relay contacts. If there is a requirement to do this use interfacing contactors. If switching large or inductive loads use interfacing contactors, this will preserve the life of the relay contacts. For example, if the application is switching two external 230VAC pumps and a 5VDC signal to a BMS system. Use 2 x 24VDC coil/230VAC switching interfacing contactors with overloads for the pumps, and the 5V signal can be taken direct from a FXL3 relay contact. Connecting like this provides overload protection for the pumps whilst maintaining safety isolation between voltage levels.



The relay connections have a common type plug so it is important to identify the correct relay being interfaced. For safety and maintenance purposes it is recommended the relay contact supplies have a local means of disconnection via a fused isolator.



**NOTE:** RELAYS 1, 2, 3 & 4 are user programmable; the FAULT RELAY is not user programmable. See section 5.0 Run Mode – Description.



### Volt Free Contact Outputs

## 3. General modes of operation

There are three modes of operation referred to as:

- Program mode- Used during commissioning to adjust software parameters.
- Run mode- Normal Operation.
- Extras mode- Includes a tank cycling mode and mA current meter. These are available as a sub menu from 'run' mode.

Before the FXL3 can be used some parameters have to be programmed by the user. In all cases this will be at least the tank empty, tank full, LCD low and LCD high values. Other options are configurable via the software menus, these are explained below.

### 3.1 Program mode

To enter program mode hold the M key for 3s. The display will show 'Code', the user must enter the 4 digit access code, the default value is 0000. The user has the option to change this code in the menus once access has been granted. Generally the UP/DOWN keys are used to alter parameters or values, the E key used to view or store, the M key to escape. From the Main Menu the UP and DOWN keys will go forward or back one menu at a time. Keeping the UP or DOWN key pressed while adjusting a value gives a fast response, press and release the keys for a slow response, i.e. fine adjust.

#### 3.1.1 Viewing existing programmed values

Once in program mode existing settings can be viewed by pressing the E key at the relevant menu. This is available for all menus except ILo, IHi, dECP and lact. ILo and IHi values can be checked by accessing the ILo and IHib menus. Note: There is no need to enter program mode to view the decimal point and lact, these can be observed from Run mode by looking at the LCD and Reverse Acting LED respectively.

It is advisable to make a note of all the user programmed parameters in the event the unit has to be re-programmed at a later date. This also eliminates the need to empty and fill vessels if it has to be re-programmed or the data is accidentally erased.

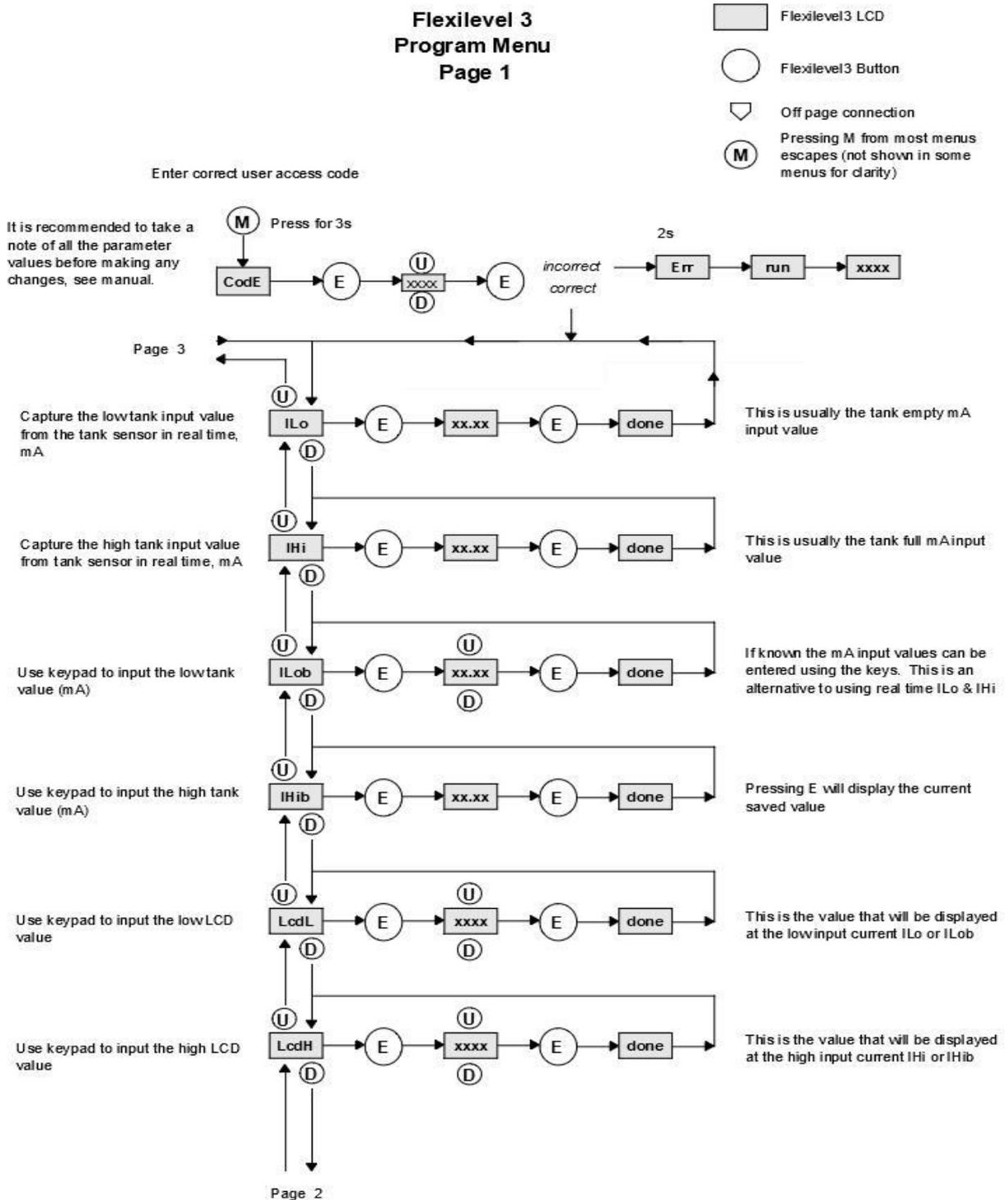
### 3.2 Software programming menu descriptions

Table 1 outlines the menus and is a logical way to program the unit.

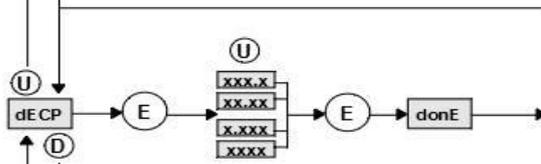
LCD	Description
ILo	Tank empty or low input current. Whilst setting this parameter the FXL3 will display the real time input current in mA from the tank sensor (XX.XX). Empty the tank to the low point wait for the value to settle and press E. ILo must be < IHi. If it isn't practical to empty the tank this value can be set using the keys, see ILo menu.
IHi	Tank full or high input current. Whilst setting this parameter the FXL3 will display the real time input current in mA from the tank sensor (XX.XX). Fill the tank to the high point wait for the value to settle and press E. IHi must be > ILo. If it isn't practical to fill the tank this value can be set using the keys, see IHib menu.
ILob	Tank empty or low input current. As an alternative to emptying the tank (see ILo) this value can be set using the FXL3 keys. Enter the mA value into the FXL3 using the UP & DOWN keys.
IHib	Tank full or high input current. If it isn't possible to fill the tank (see IHi) the high point can be set in mA using the FXL3 keys. Enter the mA value into the FXL3 using the UP & DOWN keys.
	<b>Notes:</b>

	<p>Where possible it is always best to use the live signal from the tank sensor to set the low and high points. This will achieve the best accuracy as it takes account of any variables in the installation, e.g. sensor mounting position and signal tolerance of the tank sensor. The mA value is only a reference for the LCD low and high points. Provided LcdL and LcdH are set up at the respective levels of ILo and IHi a very accurate measurement can be achieved.</p> <p>Always try to use a tank sensor that gives out a reasonable mA output span over the tank liquid level, this will give best results e.g. 5-18mA would be much better than 5-7mA.</p> <p>It is acceptable to use combinations of ILo, IHi, ILob, IHib for tank setup.</p>
LcdL	Enter the value you want to display on the LCD at the low input level (ILo). This must be between 0000 and 9999. Use the UP & DOWN keys. LcdL must be < LcdH.
LcdH	Enter the value you want to display on the LCD at the high input level (IHi). This must be between 0000 and 9999. Use the UP & DOWN keys. LcdL must be < LcdH.
	<p>Notes:</p> <p>The decimal point may not be in the correct position when setting LcdL &amp; LcdH this can be ignored as it is set up in in a later menu.</p> <p>Examples: If you require - 0 to 100.0%, set LcdL as 0000, and LcdH as 1000 200 to 6000, set LcdL as 0200, and LcdH as 6000</p>
dECP	Use the UP key to set the decimal point position xxxx or xxx.x or xx.xx or x.xxx
r1on	Use the UP & DOWN keys to adjust the relay1 ON point. Must be between LcdL & LcdH, inclusive.
r1oF	Use the UP & DOWN keys to adjust the relay1 OFF point. Must be between LcdL & LcdH, inclusive.
	<p>Notes:</p> <p>The menu also shows on/off points for Relays 2, 3 and 4. Repeat the adjustments as necessary. If relays are not being used it is recommended to disable the relay, this reduces the power consumption and stops its LED operating. To disable any relay set the ON&amp;OFF points to the same value.</p>
OPLo	Use the UP & DOWN keys to adjust (fine tune) the low mA/Volts retransmission value. This value is precisely calibrated at Hawker Electronics factory but the user can adjust if necessary.
OPHi	Use the UP & DOWN keys to adjust (fine tune) the high mA/Volts retransmission value. This value is precisely calibrated at Hawker Electronics works but the user can adjust if necessary.
	<p>Note:</p> <p>The retransmission voltage tracks the retransmission current so adjusting one will automatically alter the other.</p>
IAct	The output retransmission current and voltage may be configured for forward acting (For) or Reverse Acting (rEv). Forward: 0-100% input gives 0-100% output, Reverse: 0-100% input gives 100-0% output. Reverse is useful if signal monitoring the emptiness of a tank.
CCod	Use the UP & DOWN keys to set a new menu access code between 0000 and 9999. Factory default code is 0000. A user programmed code will replace the factory default 0000 code. If the user code is lost contact Hawker Electronics.

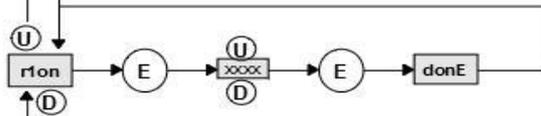
### 3.3 Program mode - Programming flow chart



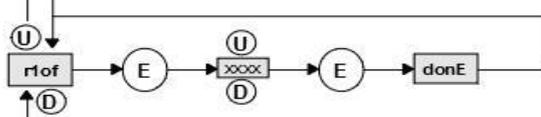
Use the UP key to set the decimal point position



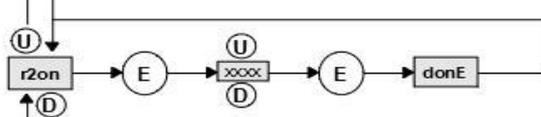
Use keypad to adjust Relay 1 ON point



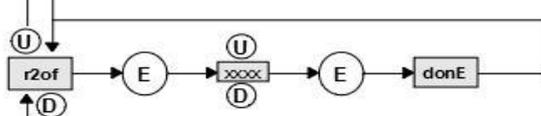
Use keypad to adjust Relay 1 OFF point



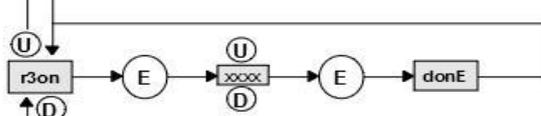
Use keypad to adjust Relay 2 ON point



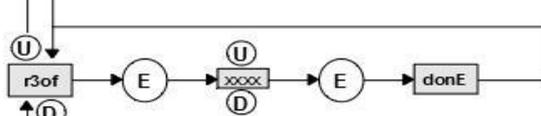
Use keypad to adjust Relay 2 OFF point



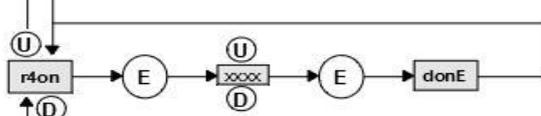
Use keypad to adjust Relay 3 ON point



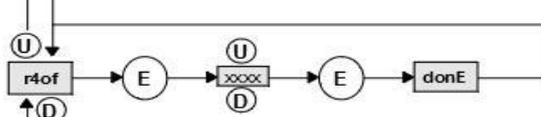
Use keypad to adjust Relay 3 OFF point



Use keypad to adjust Relay 4 ON point



Use keypad to adjust Relay 4 OFF point



### Flexilevel 3 Program Menu Page 2

Use only the UP key to scroll between 0, 1, 2 or 3 decimal places

Relays 1, 2, 3 & 4 ON and OFF points can be set anywhere over the programmed LCD range

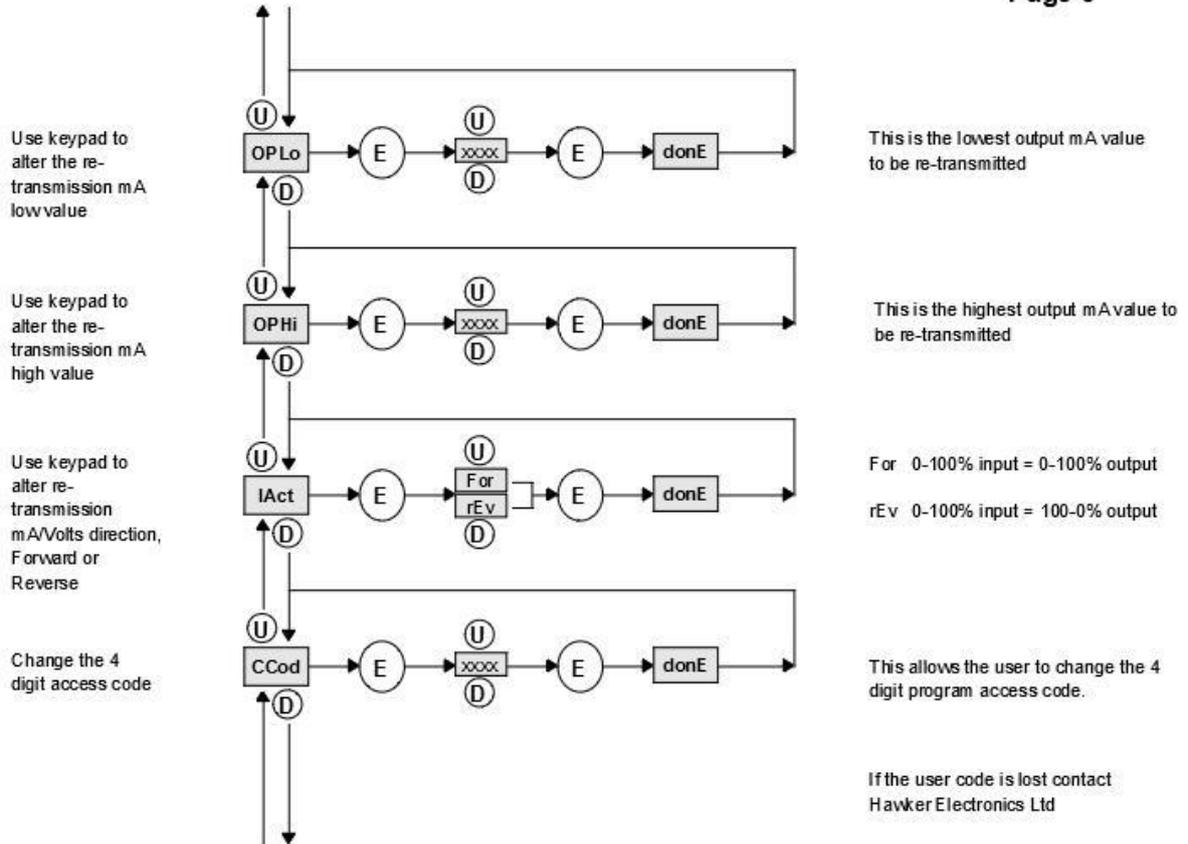
To disable a relay so it is permanently de-energised set its ON and OFF points to the same value

Relay Fail Safe is determined by which of the points is the greater  
ON>OFF=Fail Safe Low  
OFF>ON=Fail Safe High

Note:Fail Safe is application based

**Flexilevel 3  
Program Menu  
Page 3**

Page 2



Page 1

### 3.4 Run mode - Description

This is the normal working mode after the unit has been commissioned. When in RUN mode the power LED will be ON and the LCD will display a tank level or volume. The relays will operate at the user programmed ON/OFF points. Relay 1, 2, 3 and 4 LEDs will indicate if a relay is energised or de-energised, LED ON=relay energised. The Fault Relay RY5 is normally energised and will de-energise with an input fault or power loss, the fault LED will illuminate when a fault occurs provided power is present. The Rev Acting LED will be OFF unless the user has programmed the unit for a reverse transmission output.

The LCD colon will flash approximately every 5s to indicate RUN mode.

### 3.5 Extra functions - Tank simulator and mA monitor

The FXL3 has two extra features that are available from RUN mode, a 'Tank Simulator' and 'Real Time mA indicator'. These features are useful for commissioning, diagnostics or temporarily taking the unit out of normal RUN mode.

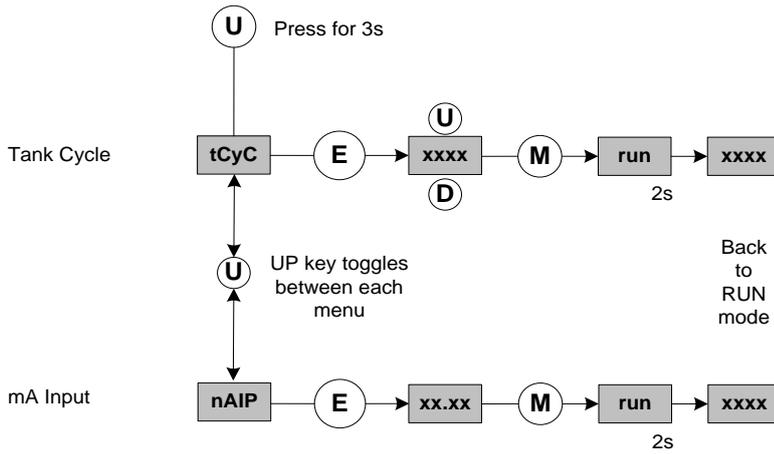
To access these features from RUN mode press and Hold the UP key for 3s, use the UP key to toggle between the two features, press E key to select whichever required. To ensure the unit is not left permanently in these modes there is an automatic timeout of approximately 5 minutes. The menu will then go back a level and display tCyC or nAIP, press E to re-enter the extra function mode or M to escape to RUN mode.

LCD	Description
tCyC	<p>Tank Cycle mode. Use the UP and DOWN keys to electronically simulate the liquid level changing in real time, this simulates cycling through the tank filling and emptying processes. This simulation will operate all of the relays, LCD, retransmission output current and voltage and LEDs as though the signal was coming real time from the tank sensor with a changing liquid level. This is useful for testing the relays and any external equipment operates as expected. It also removes the need for an external current source or altering any wiring to prove the system. The step resolution will depend on the LCD values normally 0.1% for 4-20mA 0 to 100.0%, likewise if the LCD max is 9999 then the steps will be 9.9. The Tank Cycle function will also test for over-range, under-range, and fault relay operation.</p> <p>When in this mode the colon will flash approximately every 2s. (Faster while UP/DOWN is pressed).</p> <p>It is recommended that the Tank Cycling feature is used post commissioning to check all relays, LCD and signal outputs operate as expected. Warning: External equipment may operate when using this function.</p>
nAIP	<p>mA Input mode. The LCD will display the real time mA current input from the tank sensor connected to TB3. This is useful for diagnostics and checking the mA value from the tank sensor is correct at various levels in the tank. This feature can also be used for commissioning. For example if the user monitors the mA values with the tank empty and full when convenient, at a later time the values can be entered using the ILoB and IHib menus for a very accurate setup.</p> <p>No external multimeter or current source is required. When in this mode the colon will not be displayed and the decimal point will be permanent e.g. 20.00.</p>

### 3.5.1 Extra functions flow chart

#### Extra Features Menu Tank Cycle and mA Meter

#### access from Run Mode



Flexilevel3 LCD

Flexilevel3 Button

Pressing M from most menus escapes

tCyC: Use the Flexilevel3 UP/DOWN keys to simulate a changing liquid level. This will simulate a varying input mA current instead of using the real tank sensor output. The LCD, output relays, re-transmit and LEDs will operate using all the users pre-programmed values as if the liquid level is really changing.

This can be performed with or without a real tank sensor attached.

nAIP: mA Input mode. In this mode the Flexilevel3 LCD displays the real time current in mA that it is receiving from the tank sensor or any device attached to its signal input connector TB3

These modes are useful for commissioning, fault finding and creating an artificial tank level condition.

### 3.6 Display messages & LED indicators

LCD	FACIA LED	Description
<b>General</b>		
	PWR	 Power LED is ON when AC or DC power is supplied to the product
	RLY1-4	 Relays 1 to 4, LED is ON when the relay is energised, OFF when de-energised
	REV ACT	 Reverse Acting LED is ON when in Reverse Acting retransmission mode
<b>Errors</b>		
----		 4 upper LCD dashes. The input is over the programmed range by up to approx. 0.5mA.
----	FAULT RLY	 4 upper LCD dashes & FAULT LED flashing. The input is over the programmed range by between approx. 0.5mA to 25mA. The fault relay (RY5) will be de-energised.
Shrt	FAULT RLY	 LCD display 'Shrt' & FAULT LED flashing. The input is over the programmed range by 25mA or more. The fault relay (RY5) will be de-energised.
----		4 lower LCD dashes. The input is under the programmed range Note: This feature is not available if using zero input current (ILo) as a valid value
OPEN	FAULT RLY	 LCD display 'OPEN' & FAULT LED flashing. The input is under the programmed range or open circuit. The fault relay (RY5) will be de-energised. Note: This feature is available if using a low or zero input current (ILo) as a valid value
<b>Extra Features mode</b>		
tCYC		Tank Cycle, Extras menu. Diagnostic feature. M to escape to Run mode.
nAIP		mA Meter, Extras menu. Diagnostic feature. M to escape to Run mode.
<b>Program mode</b>		
run		Temporary flash, the unit is about to start normal running operation
Err		2s flash, a user programmed parameter has been set incorrectly Note: If this occurs the software will try to take the user back to the incorrectly set menu
done		2s flash, a user programmed parameter change has been acknowledged

### 3.7 Display abbreviations with brief description

<b>Abbreviation</b>	<b>Full Form</b>	<b>Brief Description</b>
CCod	Change Code	Change the program access code
CodE	Code	Enter the program access code
dECP	Decimal Point	Decimal Point Position for display
Err	Error	Incorrectly programmed value
For	Forward	Retransmission mA is forward acting, i.e. follows input direction
IAct	Current Acting	Retransmission mA direction compared to the input, see 'For' or 'rEu'
IHi	Input High	High level input current from tank sensor in real-time
IHib	Input High Buttons	High level input current entered by user using FXL3 buttons
ILo	Input Low	Low level input current from tank sensor in real-time
ILob	Input Low Buttons	Low level input current, entered by user using FXL3 buttons
LcdH	Liquid Crystal Display High	User displayed value when the tank is at its high input level
LcdL	Liquid Crystal Display Low	User displayed value when the tank is at its low input level
nAIP	mA Input	Extra Menu function, displays the real-time input current in mA
OPEN	Open Circuit	The input mA signal is very low or open circuit
OPHi	Output High	Tank high level output retransmission current in mA
OPLo	Output Low	Tank low level output retransmission current in mA
r1oF	Relay 1 OFF point	Value at which relay 1 will de-energise
r1on	Relay 1 ON point	Value at which relay 1 will energise
r2oF	Relay 2 OFF point	Value at which relay 2 will de-energise
r2on	Relay 2 ON point	Value at which relay 2 will energise
r3oF	Relay 3 OFF point	Value at which relay 3 will de-energise
r3on	Relay 3 ON point	Value at which relay 3 will energise
r4oF	Relay 4 OFF point	Value at which relay 4 will de-energise
r4on	Relay 4 ON point	Value at which relay 4 will energise
rEu	Reverse Acting	Retransmission mA is reverse acting, i.e. reverse of input direction
run	Run Mode	Brief display before the FXL3 starts normal run operation
Shrt	Short Circuit	The input mA signal exceeds the maximum allowed value
tCYC	Tank Cycling Simulator	Extra menu function, use FXL3 keys to simulate the tank level

## Technical data

Data taken at 20°C, 230VAC powered unit, loop powered sensor attached, LCD 0-100.0%, 4-20mA I/O. All relays energised. Due to continuing development specifications are subject to change without notice.

Input Supply:	230VAC, 110VAC ±10% 50/60Hz, 24VDC ±10%
Input Power:	VAC 8VA, VDC 4.5W
Inrush Current:	2.7A@24VDC 10ms, 145mA@230VAC 10ms
Installation Category:	Over Voltage Cat II
Output Transmitter Supply:	24VDC, ±10% (optional 36VDC), isolated from input, current limiting at approx. 30mA
Input mA range:	0 to 25mA, any part of
Input Resistance:	10 ohms standard
LCD:	4 Digit, 9mm high characters, scalable between 0000 and 9999 any part of, user adjustable decimal point
Input Resolution:	00.01mA
Input Response time:	<750ms 63% FS
Input Display Accuracy:	0.1%
Input Output Resolution:	0.01mA input - 0.02mA output retransmission 0.03mA input - 0.001V output retransmission
IO Response time:	<1.5s 63% FS
LEDs:	Relay energised x 4 Power ON x 1 Reverse acting output x 1 Fault x 1
Retransmission:	Programmable within 0 to 21mA range, 4-20mA into 1000 ohms, 1-5V into min 2K, 0-21mA/0-5.25V, isolated from input and supply.
Relays:	SPCO contacts. 4A 250VAC, 30VDC resistive load 1x10 <sup>7</sup> ops mechanical endurance, 1x10 <sup>5</sup> ops electrical endurance
Conformal Coating:	Available on request
Password:	Program menus access, 4 digit 0000 to 9999 user programmable
Tank Cycling:	Simulated tank cycling via keypad 0.1% steps of FS LCD setting
mA meter FXL3 LCD accuracy:	mAIP Function, 0.01mA (0.5-24mA 0.05%)
Operating Temp:	-10°C to +40°C
Enclosure:	254x180x84mm (HxWxD), IP66, base & cover polycarbonate, sealing material Polyurethane, cover screw Polyamide - glass-fibre reinforced - torque 1.2Nm, wall mounting, impact Strength IK08.
Enclosure Mounting holes:	(x4)-165mm (hor) 239mm (vert) centres, mounting screw 6-8mm dia.
Weight:	1.5Kg

## Declaration of conformity

### EU DECLARATION OF CONFORMITY

**Product Model:** Flexilevel 3 (FXL3)

**Manufacturer:** Hawker Electronics Ltd, 57 The Avenue, Rubery Industrial Estate, Rubery, Birmingham, B45 9AL

**This declaration of conformity is issued under the sole responsibility of the manufacturer.**

**Object of the declaration:**

The object of the declaration described above is in conformity with the relevant **Union harmonised legislation:**

- **Low Voltage Directive** (2014/35/EU)
- **EMC Directive** (2014/30/EU)
- **RoHS Directive** (2011/65/EU)

Reference to the relevant **harmonised standards** used in relation to which conformity is declared:

- **LV** EN 61010-1:2010
- **EMC** Overall Specification EN 61326-1:2006
- **RoHS** EN 50581:2012

**Additional Information:**

The product named above complies with the parts of the standards listed. The company operates an internal production control system that ensures compliance between the manufactured products and the technical documentation.

**Signed for and on behalf of:**

Hawker Electronics Ltd on 04th March 2020



J J Slevin (Managing Director)