



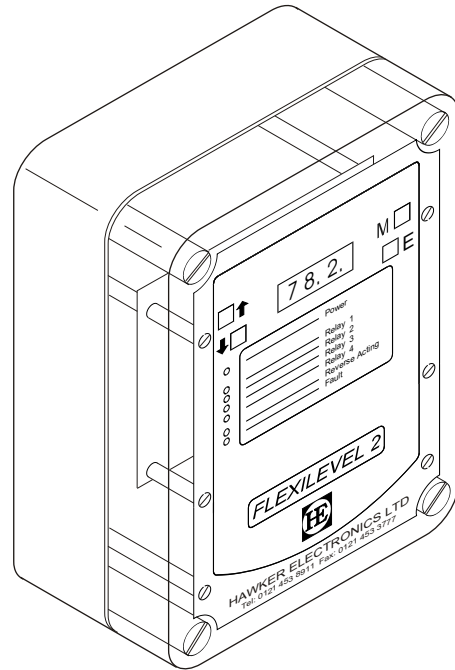
# HAWKER

## LEVEL CONTROL SYSTEMS

### The Digital FLEXILEVEL 2

Level Indicator/Controller for  
Capacitive, Ultrasonic, Hydrostatic  
Level Transducers.

- **Programmable Display**
- **4 Control Relays**
- **AC or DC Supply**
- **Sensor Failure Alarm**
- **24V Isolated Supply**
- **User Friendly**



**The FXL2** Flexilevel 2 provides digital indication with 4 control/alarm relays for use with loop powered transmitters, such as the Hawker Flexicap, Sondaloop, and Pressure Transmitter. It will accept most milliamp signals from self powered systems. An integral 4 button keypad and display allows the user to programme the various functions to suit the application in hand. No programming experience is necessary. Using a simple 'menu' procedure calibration and mode of operation are programmed as follows.

**Zero and Span** Similar to analogue instruments. These are set using the milliamp signal generated by the transducer when the vessel is empty and full, or as near full as possible.

**Scaling** The digital display can be scaled 0-100% or in engineering units to provide any numerical display commencing from 0000 to 9999, e.g. 0000-2500. The decimal point can be positioned as required.

**Control/Alarm Relay** Each of the four relays has fully adjustable hysteresis such that it can be energised at any point of the range and de-energised at any point thus providing a wide differential for pump or valve control, or small differential for alarms or close control. Fail safe high or Fail safe low is determined by the de-energised level being set higher, or lower than the energising level.

**Re-transmission** Isolated milliamp and voltage signals commencing from low scale are provided. These can be used to drive an analogue indicator or graphics for VDU etc. The re-transmission signals can be made reverse acting i.e. decreasing for increasing input signal such as may be required for depths below datum as often used for borehole applications.

**Failure Relay** This de-energises should the milliamp input signal rise above or fall below the programmed zero and span values, allowing an alarm to be raised for short or open circuits in the loop, of loop powered systems.



# HAWKER TECHNICAL SPECIFICATIONS

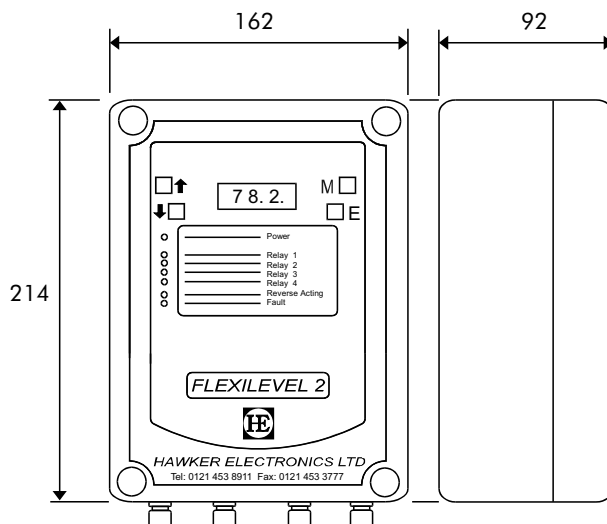
## Technical Data

- Display:** 4 Digit 9mm LCD Configurable between 0.100 and 9999. The decimal point can be positioned to suit
- Input:** Within the range 0-25mA (min span 2mA)  
Input circuit fully isolated
- Input Resistance:** 12 - 54 ohms depending on range.
- Zero Suppression:** A live zero can be set anywhere within the range.
- Accuracy:** Better than 1% for 4-20 mA input.
- Resolution:** 0.1%
- Input Supply:** 110V/230V, 50Hz or nominal 24V DC.

## Outputs

- Sensor Supply:** Nominal 24Volt for loop powered transducer fully isolated from the input and supply. Current limiting at 30mA.
- Four Control Relays:** Each having fully adjustable hysteresis with programmable fail to safe action
- One Failure Relay:** De-energised on loss of, or excess current in a loop powered system. De-energised for lost echo when used with the Hawker Sondaloop.  
All relays provide volt free changeover contacts rated 240VAC,5Amp resistive.
- L.E.D.'S** 4 off 'Relay Energised'  
1 off 'Supply On'  
1 off 'Reverse Acting' re-transmission signal  
1 off 'Fault' (flashing on failure condition)
- Re-transmission:** Programmable within 0-21mA. Max loop resistance 1000 ohms. Voltage output 1-5v when set for 4-20mA. Outputs fully isolated from input & supply.
- Enclosure:** Weather resistant to IP66  
Clear Polycarbonate fascia (214H x 162W x 92D).  
Weight: 1.3 Kg

## Flexilevel 2



## Ordering Information

| Model | Voltage                 |
|-------|-------------------------|
| FXL2  | 110VAC/230VAC/<br>24VDC |

## Compatible Hawker Products

| Product          | Data Sht No |
|------------------|-------------|
| Sondaloop        | 283         |
| Sondaloop Remote | 299         |
| Flexicap         | 254         |
| Flexicap 4-20    | 278         |
| PTX 1830         | 234         |
| Series 360       | 249         |
| Series H500      | 285         |
| HPTX 23          | 286         |

For a full list of HAWKER products and application notes visit our web site at [www.hawker-electronics.co.uk](http://www.hawker-electronics.co.uk)

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