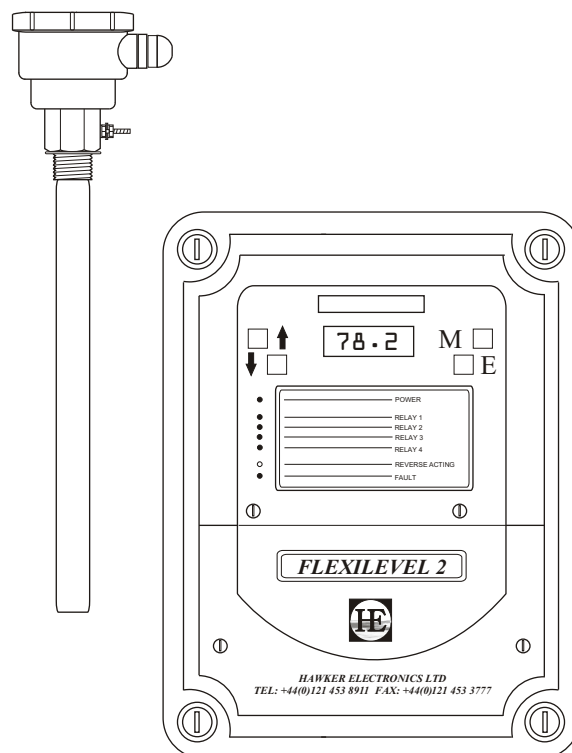




FLEXICAP

Continuous Level Indicating/Control System

- * Suitable for water based liquids, mineral and vegetable oils, hydrocarbons, acids, process blends etc.
- * Unaffected by pressure or vacuum.
- * 4 - 20mA output.
- * 4 fully adjustable set points.
- * Easily readable contents indicator.
- * Up to 3Km separation between control unit and transmitter.
- * No moving parts.
- * Flexible design.... Control unit interfaces with any two-wire loop powered transmitter.



Principle of Operation

Change of product level above an electrode results in a change of the electrical capacitance of the electrode and provides an analogue signal from which level indication and control is obtained.

The flexicap level indicating/control system comprises of the flexilevel control unit mounted within a weatherproof enclosure and the flexilevel transmitter for vertical mounting within the vessel.

The transmitter which comprises of an electrode and a plug-in electronic module mounting within the terminating head is powered directly from the control unit.

As the level in the vessel changes the corresponding change in electrical capacitance is converted into an analogue milliamp signal by the transmitter, which in turn is amplified and scaled within the control unit to provide a 4-20mA signal.

The standard flexicap electrode comprises of a polypropylene terminating head with stainless steel 1" BSP mounting boss.

The electrode proper is either bare stainless steel rod or sheathed with polypropylene depending upon the electrical properties of the product.

Where the product/application demands, other materials of construction and types of electrodes can be supplied, including concentric electrodes and cable electrodes.

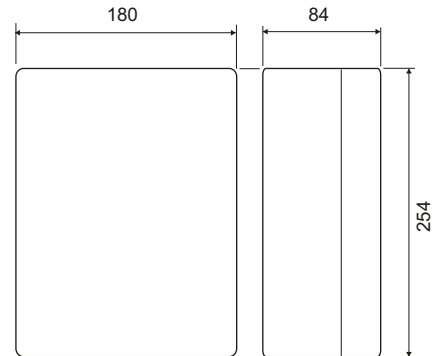
Rigid electrodes are generally available up to 3 metres in length whilst cable electrodes are used for greater depths.

Special electrodes can be supplied for corrosive, hygienic and other demanding applications the electrode should extend down to the lowest required level of indication.

The flexicap system is not suitable for hygroscopic powders & Solids.

**Flexilevel Control Unit**

Input Signal:	In the range of 0.21mA, fully isolated.
Supply Voltage:	110/230V 50Hz, nominal 24V DC
Outputs:	0-21 mA programmable into 1000 fully isolated. 4 control relays changeover 240V AC 5 amps resistive, 1 failure relay changeover 240V AC 5 amps resistive.
Sensor Supply:	Nominal 24V DC current limiting at 30mA.
Display:	4 Digit 9mm LCD configurable between 0.100 and 9999 decimal point can be positioned.
Enclosure:	Weather resistant to IP66, clear Polycarbonate lid, Polystyrene base, fascia 254H X 180W X 84D Weight 1.3Kg

**Flexilevel Control Unit
Enclosure Details****Flexicap FCP**

Supply:	From Flexilevel 2	Operating Temp:	-20 to 60 degrees C
Output:	To Flexilevel 2 (Approx 3 -23mA)	Max Process Temp:	100 degrees
Combined non Linearity hysteresis And repeatability:	± 1.5% Full Scale BSL	Weatherproof:	IP66
Temperature Compensation:	Over the set range of probe	Gland Thread:	M20
		Connection:	1 inch BSP

Material of Construction: Polypropylene housing, Polypropylene for insulated electrodes, Stainless Steel 316L for bare electrodes, Polyolefin shroud & Polyurethane cable for FCP201, Polyolefin heatshrink sleeving & PTFE spacers on FCP3 and 4. Alternative electrode materials available on request

Connecting Cable: 2 Core cable 16/0.2 screened cable.

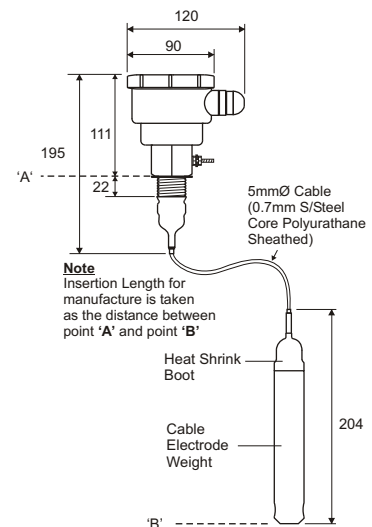
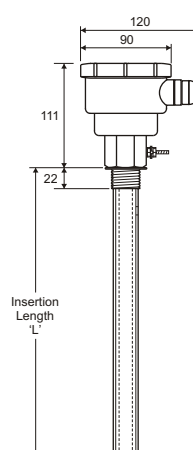
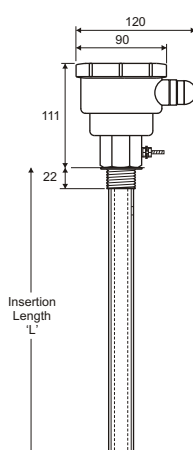
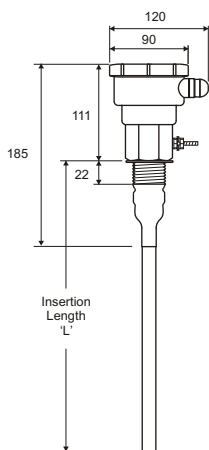
Measuring Range:

FCP 2 (Water)
0.5m Min - 3m Max

FCP3 (Oils)
1m Min - 3m Max

FCP4 (Water)
0.5m Min - 3m Max

FCP201(Water)
3m Min - 10m Max



Because of continuing development we reserve the right to change the specifications without notice

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