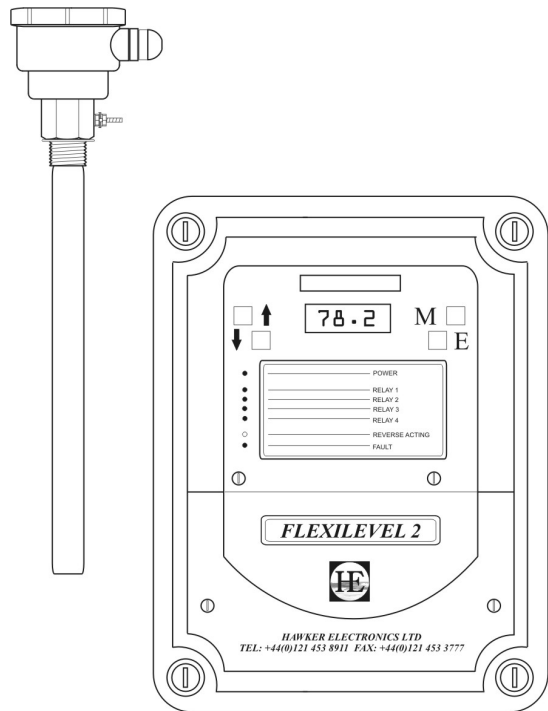




HAWKER LEVEL CONTROL SYSTEMS

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

provide a 4-20mA electrode comprises of a polypropylene terminating head with stainless steel 1" B.S.P. 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 application the electrode should extend down to the lowest required level of indication. The flexicap system is not suitable for hygroscopic powders and solids.



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TECHNICAL SPECIFICATION

Flexilevel Control Unit.....enclosure details

Input signal: In the range of 0.21mA, fully isolated.

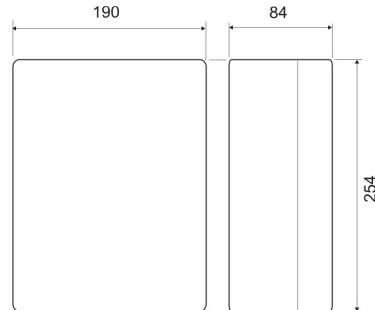
Supply voltage: 110/230V 50Hz, nominal 24V DC

Outputs: 0-21mA programmable into 1000Ω 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, 254H x 190W x 84D, weight 1.3kg.



Flexicap FCP

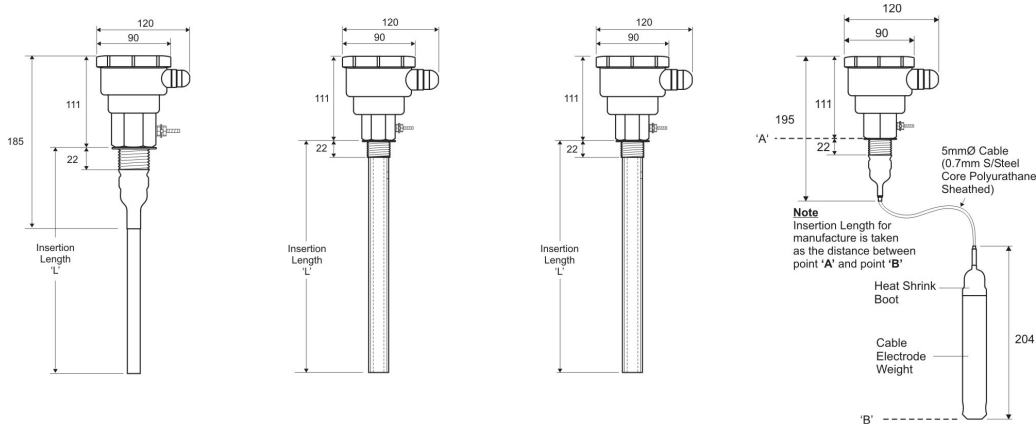
Supply:	From Flexilevel2	Operating temperature:	-20 to 60°C
Output:	To Flexilevel2 (approx 3-23mA)	Max process temp:	100°
Combined non linearity hysteresis and repeatability:	±1.5% full-scale BSL	Gland thread:	M20
Temperature compensation:	Over the set range of probe	Connection:	1" B.S.P.

Material of construction: Polypropylene housing, Polypropylene for insulated electrodes, Stainless Steel 316L for bare electrodes, Polyolefin shroud and Polyurethane cable for FCP201, Polyolefin heatshrink sleeving and PTFE spacers on FCP3 and FCP4. Alternative electrode material is available on request.

Connection cable: 2-core cable 16/0.2 screened cable.

Process pressure: FCP2, FCP4, FCP201 = 100psi @20°C, FCP3 = 300psi @ 20°C

Measuring range:	FCP2 (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
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This product has been designed and complies to the relevant standards as listed in its certificate of conformity the installer/user must ensure compliance. The crossed-out bin symbol, placed on the product, reminds you of the need to dispose of the product correctly at the end of its life. Because of continuing development we reserve the right to change the specifications without notice

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