



# HAWKER

# LEVEL CONTROL SYSTEMS

## Universal Controller

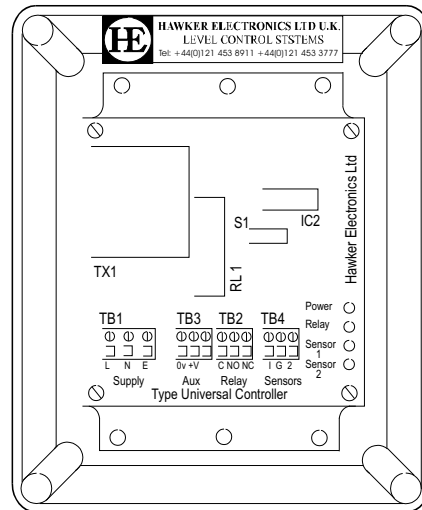
- Use with any device with volt free contacts.
- Use for alarm or control.
- Single or dual switched inputs.
- Adjustable time delay for both On and Off.
- Built in diagnostic facilities.
- Can be powered by D.C. or A.C.
- Wall or panel mounted versions.
- Small and light weight.

### Principle of Operation

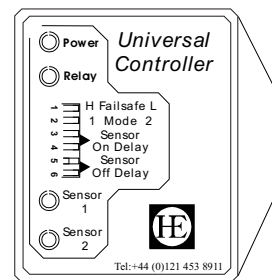
A microprocessor based controller which accepts one or two voltage free contacts and provides single alarm or control function with adjustable timer controls. There is also facility for setting the fail safe according to filling or emptying applications. Examples of sensors having volt free contacts capacitance probes, float switches, thermocouples, pressure switches etc. On the front of the unit there are a series of switches which operate as follows:- Switch No 1 marked 'H fail L' sets the fail safe feature. In the L position, the relay is energised when the input has detected a contact closure, (generally for emptying applications). In the H position the relay is de-energised when the input has detected a contact closure, (generally for filling applications). Switch No 2 marked '1 sensor 2' allows the unit to operate either as a single point unit or as a dual unit with latching facility.

Switches 3 & 4 marked 'Sensor On Delay' allows an optional time delay to be set on input (e.g. to prevent unwanted triggering due to turbulence, splashing etc). Switches 5 & 6 marked 'Sensor Off Delay' allows an optional time delay to be set on output giving continued relay operation for a predetermined time (e.g. to allow a pump to continue pumping beyond the level set by its control probe). Delays are set by the switch positions and give delays of 0 sec's, 15 sec's and 120 sec's. The state of the input devices and the output relay, can be recognised by LED's and there is also a 'Power On' LED. Built-in diagnostic features utilise flashing LED's indicating incorrect connection, or the failure of input No 2 in the dual mode. Generally 3 core cable may be used for inter connections, but if isolation is required between input and controller, 4 core cable is necessary.

UC1



UCP/1





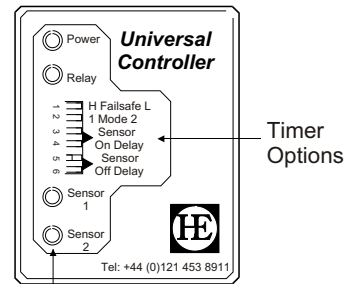
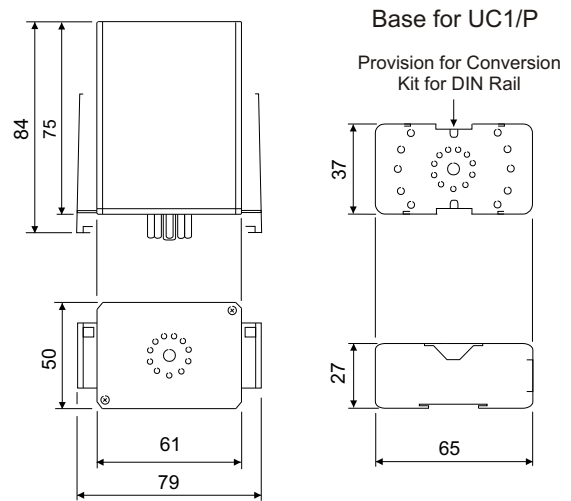
# HAWKER TECHNICAL SPECIFICATIONS

## Technical Data

### Universal Controller (UC)

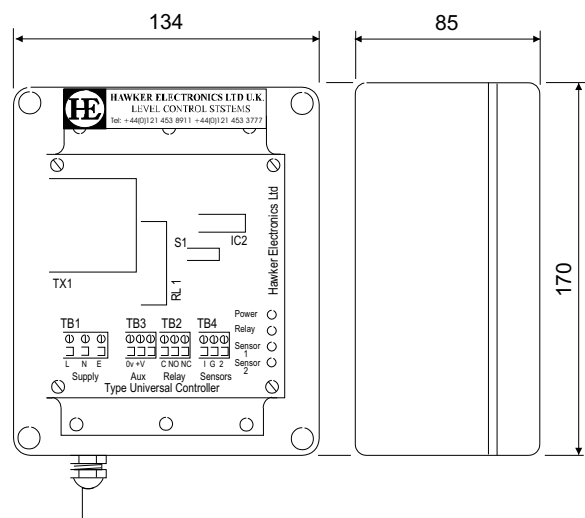
- Supply: 230V/115V AC 50Hz  
24V DC reversw polarity protected (selected at works)
- Consumption: 0.35W @ 24V DC ( no load)  
1W @ 24V DC ( under load)  
5W @ 230V AC ( under load)
- Input: 2, volt free or open collector
- Max Input Resistance: 2,000 ohms
- Dip Switch: User adjustable
- Input Timer: 0, 5, 15, 120sec's by dip switches (On Delay)
- Ouput Timer: 0, 5, 15, 120sec's by dip switches (Off Delay)
- Accuracy: Better than +1sec or -1sec on 120sec's range
- Repeatability: 100%
- Fail to Safe: High or Low
- Modes: Single or Dual switched inputs
- Outputs: Relay volt free  
SPCO contacts 5A @ 230V resistive  
LED's  
Yellow =Power On  
Red = Relay Energised  
Green = Sensor 1 Active  
Green = Sensor 2 Active
- Aux Supply: 15-20V DC @ 50mA unregulated (from mains unit) (internal 100mA resettable fuse).
- Operating Temp: -10°C to +60°C
- Weight  
UC1/P: 215 gms  
UC1: 850 gms
- Diagnostic: Flashing input L.E.D.'s
- Protection  
UC1/P: IP20  
UC1: IP65

### UC1/P for Panel Mounting



Diagnostic LED's

### UC1 for Wall Mounting Polycarbonate Enclosure with Clear Lid



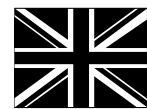
Because of continuing development we reserve the right to change the specifications without notice

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