

# The **DEETER** Group®

## Dual Level Controller



The Dual Level Controller allows control of the liquid level in a tank between two points and/or an extra control output in the event that the tank over or under fills. The Dual Level Controller (DLC) provides safe low voltage for the level switches which may become submersed and has high power relay contacts to control a pump or a solenoid valve in a gravity fed top-up system. The DLC-1 provides one relay that can be configured to provide dual level control or just buffer a single float switch or other light duty switching device. The DLC-2 has an additional totally independent relay that can be used for any purpose. For example, a pump can run dry and become damaged if there is a lack of liquid in the tank in a pumped output system. A float switch can be set just above the level where this occurs and the relay contacts of the DLC-2 wired to cut the electrical supply to the pump motor. The DLC-3 offers an IP65 rating in addition to these features.

The uses of this product are diverse – please call us to discuss potential applications.

Deeter House  
Valley Road  
Hughenden Valley  
Bucks HP14 4LW

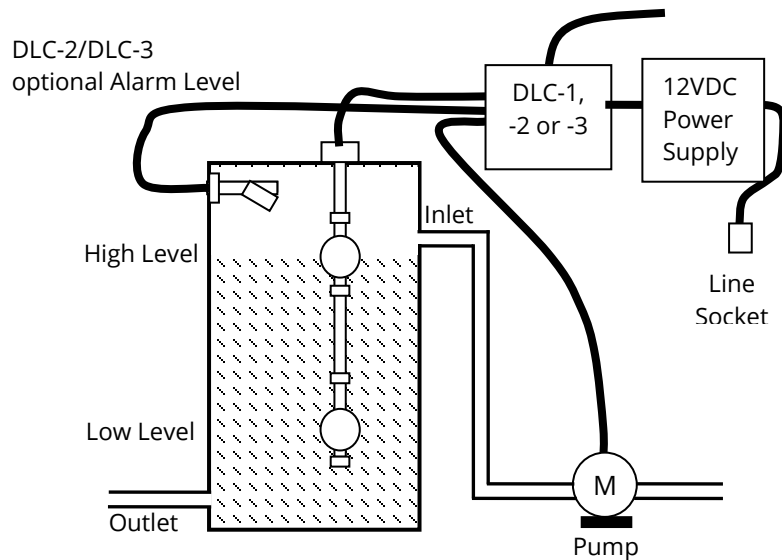
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The figure above shows an example where a pump is used to top up a storage tank. Other arrangements can be controlled equally well by the Deeter Dual Level Controller. Please call us to discuss your requirements.

### BENEFITS

- Enables lightly rated float switches to safely control high power electrical loads such as pumps or valves.
- Prolongs the life of the float switches, pumps and valves by reducing on/off cycling.
- Float switch wiring, which may become wet, is safer because low voltage is used.
- Quick to install. Supplied with easy to follow instructions.

We manufacture many standard float switches that are compatible with the DLC-1, DLC-2 & DLC-3, as well as manufacturing custom designed float switches to suit your specific requirements. Call us to discuss your requirements.

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### Specifications

<b>Dimensions</b>	63mm x 180mm x 175mm (including cable glands)
<b>IP Rating</b>	Standard DLC – IP41 Sealed option – IP65
<b>Temperature Range</b>	-20°C to +80°C
<b>Power Requirement</b>	10-14VDC @ 100mA
<b>Mains Power Adapter – Supplied</b>	100-240VAC input, 12VDC output @ 500mA
<b>Power Input Terminal</b>	Standard DLC – 2.1mm socket, centre positive Sealed option – screw terminals
<b>Power Input Fuse</b>	500mA anti-surge, 5x20mm cartridge
<b>Float-switch Inputs – ‘Open’ State</b>	>10k ohms, DC supply voltage across switch (typ. 12V)
<b>Float-switch Inputs – ‘Closed’ State</b>	<100 ohms, 1.2mA (typ.) through switch
<b>Relay Contacts – Maximum Current</b>	8A continuous, 15A peak
<b>Relay Contacts – Maximum Voltage</b>	250VAC
<b>Wire Sizes – Relay Screw Terminals</b>	20 AWG – 12 AWG (2x14 AWG for ‘earth’ feed-through) 0.5mm <sup>2</sup> – 3.3mm <sup>2</sup>
<b>Wire Sizes – Float-switch Terminals</b>	24 AWG – 14 AWG 0.2mm <sup>2</sup> – 2.0mm <sup>2</sup>
<b>Cable Sizes – High Voltage Side</b>	4.5mm – 10mm diameter
<b>Cable Sizes – Low Voltage Side</b>	3.5mm – 7mm diameter

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### Ordering Information

Description	Ordering Code
Dual Level Controller 1 (DLC-1) with:- 90 – 264VAC @1A (Supplied with UK, EU and USA plug adaptors)	DE012-0215
Dual Level Controller 2 (DLC-2) with:- 90 – 264VAC @1A (Supplied with UK, EU and USA plug adaptors)	DE012-0216
Dual Level Controller 3 (DLC-3) with:- 90 – 264VAC @1A (Supplied with UK, EU and USA plug adaptors)	DE012-0214

**All electrical equipment should be installed by a qualified/certified electrician.**

The Deeter Group follows a policy of continual development of its products and reserves the right to change specifications and/or features without notice.

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