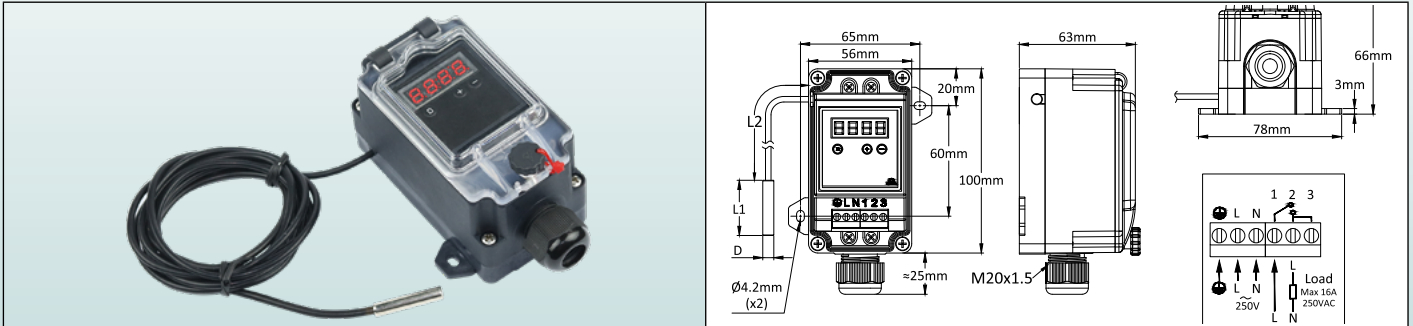




## Type: 2DPAP6F



This **ultra-compact** electronic temperature controller was designed to provide the simplest and instinctive end user setting. It can be used by un-trained operators. It provides simple On Off action temperature control.

It is possible to set °C or °F display, heating or cooling relay output, decimal display, sensor type and temperature range by internal Dip switches (Without access by end user).

**End user has only access to set point and differential setting.**

Adjustment of maximum temperature setting allowed to the operator can be set without the need to open the control.

This control is designed to be wall mounted, in industrial or commercial buildings, or in livestock premises in indoor or outdoor applications.

### Main features

**Enclosure:** 100 × 56 × 66mm. In black PA66, impact resistant (IK10), UV resistant, and has the highest ingress protection level: IP69K (resistant to high pressure hot water washing). Transparent polycarbonate window, with gasket and knurled opening screw with possibility of sealing (5 seals supplied as standard).

Wall mounting by two removable legs, 60 × 65mm between axis.

**Display:** 3+1 digit LED. The fourth digit is used to display °C or °F, upon setting made.

**Set point setting:** In normal use, the display shows measured temperature. Push “+” or “-” keys will display the set point value, and at that time it can be adjusted with “+” and “-” keys. No action during 5 seconds will register the new set point value and bring back display to measured value.

**Temperature differential setting:** In normal use, when the display shows measured temperature, push “D” key will display the differential value, at that time it can be adjusted with “+” and “-” keys. Push “D” again or no action during 5 seconds will register the new differential value and bring back display to measured value.

**Action:** On-OFF.

**Temperature sensor:** Pt100 (3 wires) or NTC 10 kilo-ohms @25°C, B= 3380 (2 wires) Temperature sensor can be selected by a dip switch on circuit (No access to final user).

**Accuracy:** +/-1% of scale.

**Temperature adjustment ranges:**

- 30+120°C (-20+250°F), with 1° display
- 30.0 to +40.0°C (-20.0 + 99.9°F), with 1/10° display
- 30+400°C (-20+750°F), with 1° display

Temperature range and decimal digit can be selected by dip switches on circuit (No access to final user).

**Power supply:** 220 to 250V, 50Hz or 60Hz.

**Relay output:** Single pole, 16A250V res., 100.000 cycles. The digital display provides relay position.

**Relay action:** Heating or cooling, (relay contact open or close on temperature rise action) can be selected by a dip switch on circuit (No access to final user).

**°C or °F display:** Can be selected by a dip switch on circuit (No access to final user).

**Maximum possible set point adjustment by user:** Push “D” button more than 10 seconds, display shows the maximum temperature that can be set by user. Then it is possible to adjust this value with “+” and “-”, push again on “D” or do nothing during 5 seconds will register the maximum possible setting value and control will come back to measured valued.

**Ambiant:** -20+60°C, 10-90% RH.

**Power:** <4W.

**Safety:**

- If there is no power supply to the electronic board, relay output contact will open
- If Pt100 sensor or NTC is broken or not connected properly, relay output contact will open and display will show “EEE”
- If measured temperature is higher than allowed by the set range, display will show HHH
- If measured temperature is lower than -30.0°C or -20.0°F, display will show LLL

**Electrical connections:**

- Power input for electronic board: Neutral, phase, ground, with 2.5mm<sup>2</sup> terminals
- Relay input and output: 2.5mm<sup>2</sup> terminals.
- Temperature sensor: three 2.5mm<sup>2</sup> screw terminal. Access to these terminals is possible only after removing the internal cover.