

# PUMP CONTROL UNIT

PCU-WPG



Costumizable  
key icons



## KEY FEATURES

- + **Pressure Governor** With Cavitation Warning
- + Alphanumeric **Super Bright Led Display**
- + Integrated **Water Tank Level Indicator**
- + Integrated Keypad - **12 Keys**
- + Integrated **10 Warning Lights**
- + Selection of Pressure by **Rotary Knob** - Encoder
- + **Acoustic Signal** - Integrated Buzzer

## PRECISION PRESSURE CONTROL AND MONITORING UNIT

The **PCU-WPG** is an electronic Pump Control Unit with an integrated pressure governor, water tank level gauge, keypad, warning lights and super bright alphanumeric LED display. It can also be used to control other vehicle systems such as valves, lighting, display engine data and water pump data, etc. The main function of PCU is Pressure Governor which allows automated regulation of the engine RPMs according to the pressure fluctuations in the pump. The automatic pressure regulation is turned ON by turning the rotation switch - encoder.

The integrated keypad is programmable. Each key can be configured to operate as a switch, push button or both as a special feature. Key label graphics are customizable and coloured according to function groups for easy recognition. Unused keys can be screened off with a dark label.

## SPECIFICATIONS

### POWER

**Supply Voltage** 8-32 V DC

**Current** 1 A maximum

**Electrical Protection** overvoltage, transients, reverse polarity, load dump

### INTERFACES

**CAN** 1x CAN

**CAN termination** 120 ohm, DIP switch

**USB** 1x USB 2.0, for firmware update

### FEATURES

**Pressure governor** automatic pressure regulation with cavitation warning

**Display** alphanumeric super bright LED display, 11 digits

**Warning lights** 4 red, 4 amber, 2 green, total 10 LEDs

**Tank Level Indicator** 1x, blue/red LED

**Indicator increments** 1/8

**Keypad** 8 soft keys (programmable) + 4 hard keys (pre-defined)

**Status Indicator** super bright green LED bar

**Icons** customizable key icons

**Key Design** RIM-embossed keys with tactile feedback, white backlit keys, dimension 23 x 23 mm

**Operating Life** >250.000 cycles

**Rotary Knob** Encoder 16 pos. / 360° with push button

**Day/Night operation** automatic – integrated ambient light sensor

**Acoustic Signal** Integrated Buzzer 100 dB

### ENVIROMENT

**IP Class (IEC529)** IP67

**EMC Conformity** EN61000-6-2 noise immunity

EN61000-6-4 radiation of interference

**Temperature Range** storage -40° to +85°C (-40° to 185°F)

operating -40° to +85°C (-40° to 185°F)

### ENCLOSURE

**Housing Material** aluminium

**Mounting** in-dash, with 4 screws M3 or 2.9 mm tapping screws

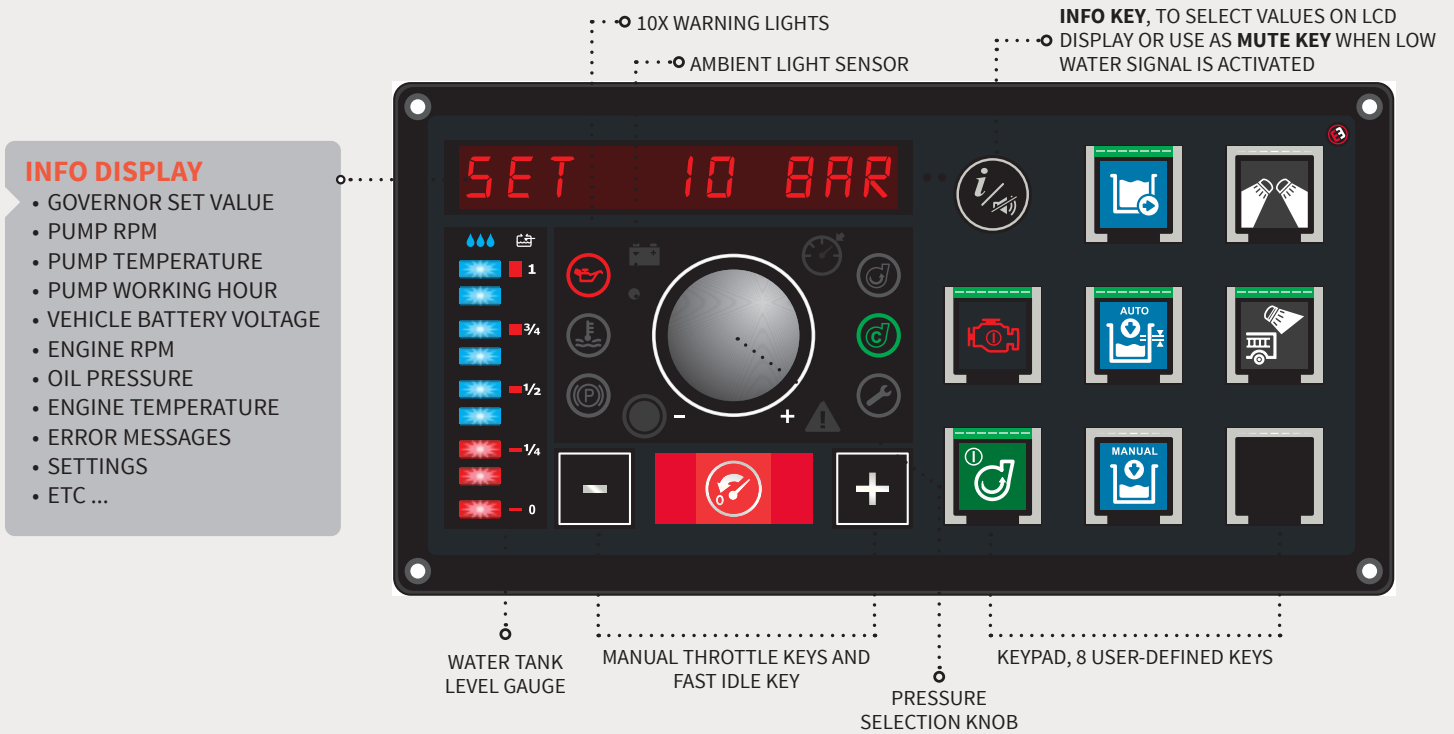
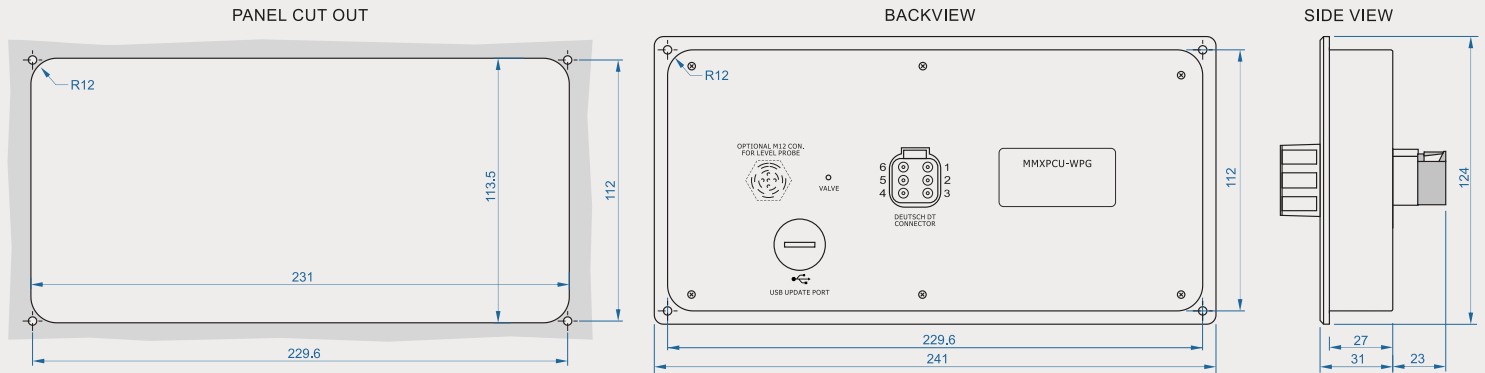
**Mating Connector** Deutsch DT06-6S

### SIZE & WEIGHT

**W x H x D** 241 x 123 x 38 mm, without mating connector

**Weight** 1 kg

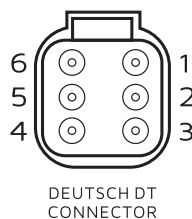
## DIMENSIONS



## CONNECTIONS

### CONNECTION DEUTSCH DT06-6S

| PIN | Description                  |
|-----|------------------------------|
| 1   | BATTERY + ("15")             |
| 2   | CAN L                        |
| 3   | CAN L, int. shorted to PIN 2 |
| 4   | CAN H                        |
| 5   | CAN H, int. shorted to PIN 4 |
| 6   | BATTERY -                    |



## PRODUCT CODE

**PCU-WPG** Pump control unit with pressure governor, water tank level gauge, keypad, warning lights

**PCU-W** Pump control unit with water tank level gauge, keypad, warning lights

*For more options please contact the supplier.*