EMITTER ELECTRONICS
innovative · reliable · flexible

MMX PCU-WKPG

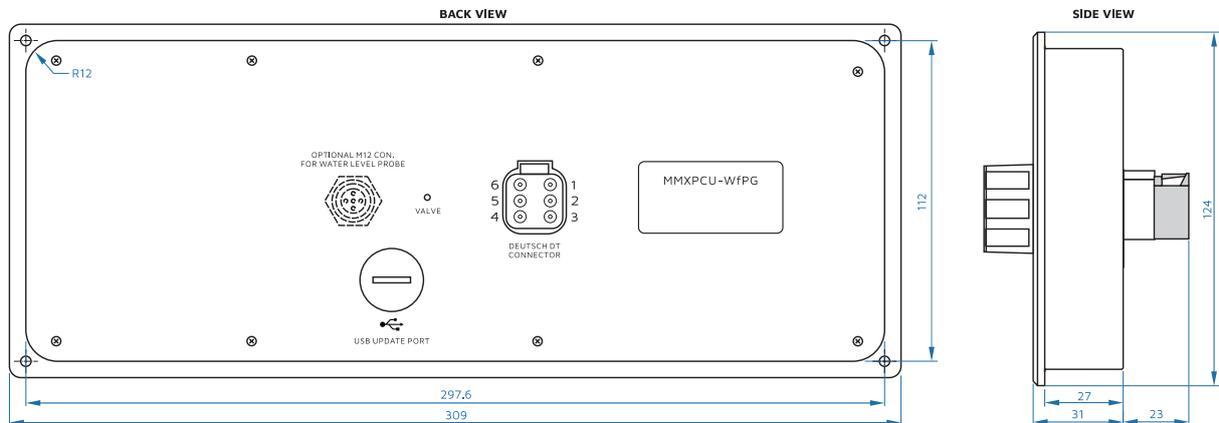
Icons shown on this keypad are for visual demonstration only.

Features and Benefits

1 **Pressure Governor With Cavitation Warning**

2 **Alphanumeric Super Bright Led Display**

3 **Integrated Water Tank Level Gauge**

4 **Integrated Keypad - 18 Keys**

5 **Integrated 10 Warning Lights**

6 **Selection of Pressure by Rotary Knob - Encoder**

The **MMX PCU-WKPG** 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, display pump warning messages as cavitation temperature, 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.

BACK VIEW

R12

OPTIONAL M12 CON. FOR WATER LEVEL PROBE

VALVE

6 5 4 / 1 2 3
DEUTSCH DT CONNECTOR

MMXPCU-WfPG

USB UPDATE PORT

297.6
309

SIDE VIEW

112

124

27
31   23

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.
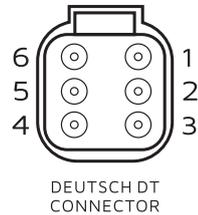
10x WARNING LIGHTS

AMBIENT LIGHT SENSOR

INFO KEY, TO SELECT VALUES ON LCD
DISPLAY OR USE AS **MUTE KEY** WHEN
LOW WATER SIGNAL IS ACTIVATED

INFO DISPLAY
- GOVERNOR SET VALUE
- PUMP RPM
- PUMP TEMPERATURE
- PUMP WORKING HOUR
- VEHICLE BATTERY
  VOLTAGE
- ENGINE RPM
- OIL PRESSURE
- ENGINE TEMPERATURE
- ERROR MESSAGES
- SETTINGS
- ETC ...

WATER TANK
LEVEL GAUGE

MANUAL THROTTLE KEYS
AND FAST IDLE KEY

PRESSURE
SELECTION KNOB

KEYPAD, 14 USER-DEFINED KEYS

Connection

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 -

DEUTSCH DT
CONNECTOR

Specifications

POWER	
Supply Voltage	8-32 V DC
Current	1.2 A maximum
Electrical Protection	overvoltage, transients, reverse polarity, load dump

INTERFACES	
CAN	1 x 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 digit
Warning lights	4 red, 4 amber, 2 green, total 10 LEDs
Tank Level Gauge	1x, blue/red LED
Indicator increments	1/8
Keypad	14 soft keys (programmable) + 4 hard keys (pre-defined)
Signal Indicator	super bright red LED bar
Icons	freely selectable icons
Key Design	RIM-embossed keys with tactile feedback, operating force 8N, white backlit icons
Operating Life	>250.000 cycles
KEY dimension	23 x 23 mm
Rotary Knob	Encoder 16 pos. / 360º with push button
Day/Night operation	automatic – integrated light sensor

ENVIRONMENT	
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
Matting Connector	Deutsch DT06-06S

SIZE AND WEIGHT	
W x H X D [mm]	309 x 123 x 38, without matting connector
Weight	1.2 kg

Product Code

MMPCU-WKPG	Pump control unit with pressure governor, water tank level gauge, keypad, warning lights
MMXPCU-WK	Pump control unit with water tank level gauge, keypad, warning lights
For more options please contact the supplier.	