

PPG meter – The Instrument for Powered Paragliding

Model 2024

New functions:

- Flight time calculation according to fuel level
- All timers reset
- Setting option initial time in total timer
- Total timer code block possibility
- Fuel flow alarm (fuel leak)

PPG meter with a graphic backlit display made in two versions:

- no battery for paramotors with el. starter
- with a battery box for AAA batteries

Functions of the new PPG meter:

- RPM
- Start monitor system – security of the engine startup
- 2x temperature – 1200°C or 2192°F
- Engine timers 4x
- Fuel gauge - fuel level - liter or gallon
- Fuel flow – liter or gallon
- Voltage
- Max. values of temp., RPM and fuel flow
- Alarms –temperature, RPM, minimum and maximum voltage, voltage of battery, fuel level and fuel flow.

Two buttons on the front panel:

- **ENT - enter**
 - Long push** - to enter the menu and change values
 - Short push** - to navigate in the menu
- **ESC – escape**
 - Short push** - step back,
 - Long push** – approx. 2s to deactivate a flashing display caused by any alarm, after that the alarm area will be highlighted on the display the alarm remains highlighted only on the display at the position. **Long push** - 4s –the PPG meter turns off manually

The PPG meter turns on automatically via the RPM sensor after the engine startup or by a long push of the ENT button.

Main Menu:

MAXIMUS – maximal values saved after the last reset

- **Show maximus** - display of the maximum values
- **Reset maximus** - reset of the maximum values

ALARMS – settings of all alarms

- **Temperature 1 alarm** – alarm setting no. 1
- **Temperature 2 alarm** - alarm setting no. 2
- **Revolution alarm** – alarm setting for max. RPM
- **Supply minimum alarm** – alarm setting of the minimum voltage
- **Supply maximum alarm** – alarm setting of the maximum voltage
- **Fuel level alarm** – alarm setting of the tank reserve
- **Fuel flow alarm** – **alarm setting of max. fuel flow**

FUEL INDICATION – setting of the fuel level sensor

- **Tank volume** - setting the size of your tank - displayed on the main display
- **Fuel indication calibration** – fuel cal.of sensor - setting of 0%,50%, 100%
- **Display unit** – setting of units for the fuel level sensor – liter or percent on the display

FUEL CONSUMPTION MENU- setting of the fuel flow sensor

- **Flow data** – flight time, burned fuel, AVG fuel
- **Reset long term consumption** – reset of time and aver. fuel consumption

TIMERS – display and reset of all timers

- **Show all** – display of all timers – 1x overall time, 2x user time
- **Reset user timer 1** – reset user timer no. 1
- **Reset user timer 2** - reset user timer no. 2
- **Reset main timer** – reset main timer by input code – factory code 0000
- **Set main timer** – set initial time - main timer by code – factory code 0000

For paramotor producers possibility set code according to wishes

START MONITOR SYSTEM – security of the engine start up

During the engine startup, the engine revolutions must not be exceeded – **REVOLUTION LIMIT** - in a given period – **TIME LIMIT**. The overspeed will stop the engine for a term – **ALARM TIME**.

Status:

disabled – turn off the system

enabled – turn on the system – will always work when the engine stops, no matter whether the PPG meter is on or it has just been turned on for the first start.

just once – the system is on, but it is active **ONLY** during the first engine start after turning the PPG meter on. That means that if there are no problems during the first engine start (no need to use start monitor system) the start monitor system will be turned off for the following starts. The system will be reactivated after turning the PPG meter off and on.

The function is convenient for paramotors with the electric starter and with a PPG meter connected to the central battery, using the main switch the PPG meter can be turned off.

In such case I recommend to set up the **Power Off** in the menu and then set up an **auto off timer** into the position **disabled** (turned off) – the PPG meter will not turn off automatically if the engine does not work. The PPG meter will turn off only using the main switch on the device.

Just Once is a function convenient for pilots who turn the engine during off a flight and require an immediate increase of power.

This system can be also used for paramotors with a manual starter, i.e. without a central battery and when the main switch is no installed. You just need to activate the button **Power Off in the menu** and then set up an **auto off timer** to **enabled** and prolong the time of an automatic shutdown of the PPG meter according to your ideas – up to 250 min.

After landing the PPG meter can be manually turned off by a long push of the ESC button.

- **Revolution limit** – max. RPM for the start monitor system
- **Time limit** – time for activation of the start monitor system
- **Alarm time** – a time period when the engine is stopped

SETTINGS

- **Backlight** – setting of illumination to the position on/off
- **Contrast** – setting of the display contrast
- **RPM sensor constant** – setting of the synchronization of the RPM of the engine with a displayed rotations. You can set up:
 - 1 pulse per rotation** - 1 impulse equals to 1 rotation
 - 2 pulse per rotation** - 2 impulses equals to 1 rotation
 - 0,5 pulse per rotation** - 1 impulse equals to 2 rotation
- **Consumption constant** – set the type of the fuel flow sensor
- **Temperature units** - °C or °F – switching between °C and °F
- **Volume units** – switching between liter or gallon

POWER OFF – switch off PPG meter

- **Turn off** – PPG meter turns off
- **Auto off timer** :
 - Disabled** - deactivation of the automatical PPG meter shutdown
 - Enabled** – activation of the automatical PPG meter shutdown
 - Auto off timeout** – time setting for the automatical switching off after engine shutdown

Tech. Specification:

Power supply :	5-20V
Display module size :	60x37x15mm
Sensor module size :	60x28x11mm
Battery box size :	63x48x15mm

Wire length between display and measuring module : 130cm

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