GLOW 3

NEW : With battery warning, standard mode and automatic programming

On board glow plug heating with regulated current for 2-stroke engines (spilt version)

General :
The current can be adjusted to the glow plug and is regulated with high precision and very high efficiency by a microcontroller.
This ensures an optimum ignition temperature, low energy consumption and lowest weight, as well as a steady idle and good transition from idle to full throttle.

In multiple-engine models and flat engines, glow plugs can be connected in series. The recommanded number of cells for the glow plug battery is the same as the number of glow plugs plus one.

By means of a spilt version this type is shock-, vibration-, and waterproof.
The GLOW3 was developed especially for 2-stroke engines :
1-cylinders engines, boxers and in-line engines, standard engines, high power engines for racing cars, power-boats and helicopters as well as 2-stroke big engines with ultra cold plugs.

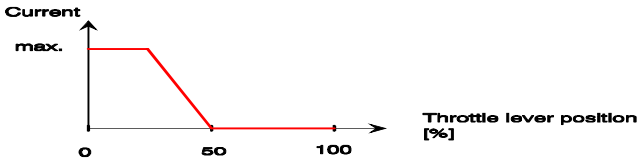
Connections:

Std: Selection for automatic programming or a standard glow point.
ON = automatic programming, OFF = standard (half throttle)

Where a programmable transmitter is used, the glow plug heating can be assigned to a seperate channel and mixed with the accelerator servo. (mixer set to 100%) In this cas theV - cable is not necessary.

Automatic programming mode:
Set the throttle lever to idle position. Turn on transmitter and receiver. The bright red LED flashes on.
Move the lever to full throttle position. The bright red LED flashes on once again. Finished !
With this automatic setting the glow plugs start to glow at half-throttle and reaches the allowed current at fourth of full throttle.
The bright red LED acts as a function monotoring lamp and an adjustment aid for automatic programming.
If this adjustment doesn´t asure, just set the throttle lever at beginning not completely to idle position. Thus annealing already begins between half and three-quarter gas.
If you want to shift the switching point on further downward, go through the same procedure in reverse order.

MICROSENS ELECTRONICS
Ing. Peter Klementschitz
8430 Leibnitz , Beim Johanniskreuz 33
Tel. +43 – 3452 – 76 3 14
Fax +43 – 3452 – 76 31 44
http://www.microsens.at
microsens@aon.at



Setting of max. glow plug current:
(by means of jumpers a, b off = striped, on = fixed)

a	b	max. (A)	Plug type	Glow time [min.] AKKU1 - 1500mAh
on	on	2.00	1-2 (hot)	45
off	on	2.33	2-3	38
on	off	2.80	3-4	32
off	off	3.33	4-5 (cold)	27

Number of cells:

Application	Cells	Voltage (V)
1-cylinder	2	2,4
2-cylinders or 2-engined	3	3,6

Battery warning:
The bright red LED starts to gleam when the battery is not able to supply the glow plug with the necessary current.

When 2 discharged batteries are connected in series then it is possible to charge simutaneously by a standard 4-6 cells battery charger.

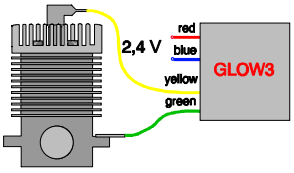
Please use only <u>new</u> glow plug cables (ZUBI3), all with the same length.

Technical Data

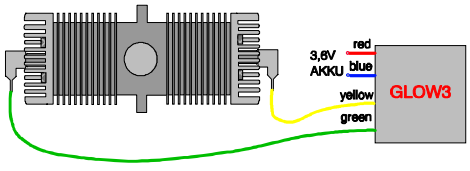
Dimensions (L x W x H)	: 35 x 25 x 5 mm
Weight with	: 20 g
Power supply to receiver battery	: 4 or 5 cells NiCd, 1 - 15 mA
Internal measuring resistor	: 0.003 Ω
Accuracy for typical current	: + / - 0.1A for each glow plug
Recommanded cells	: AKKU1, NiMH 1500mAh
Recommended glow plug cable	: Glow plug cable microsens (ZUBI3)

Another products of microsens ®:
GLOW2, GLOW3, GLOW4, GLOW4B, GLOW5, GLOW7, GLOW9
SOLID0, SOLID1, SOLID2, AKKU1-7, ZUBI1-5, PIEPSER

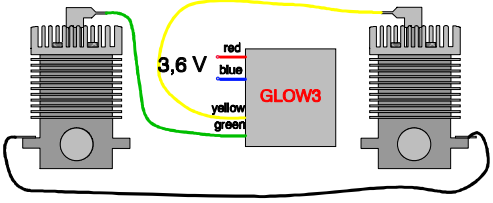
1-cylinder-engine



2-cylinders engine



2-engined



NOTE:
During inappropriate handling (e.g. modifying or caping the links) or neglecting the polarity of batteries, the warranty goes out automatically.