RegoLed

coemar

Quick instruction guide

1^ edizione, August 2004

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Regoled
+9-28V DC

Quick instruction guide.

Software version 1.01 or higher.

IMPORTANT NOTE: the notes below are valid for all functions.

1) Setting a dip-switch to ON activates the function.

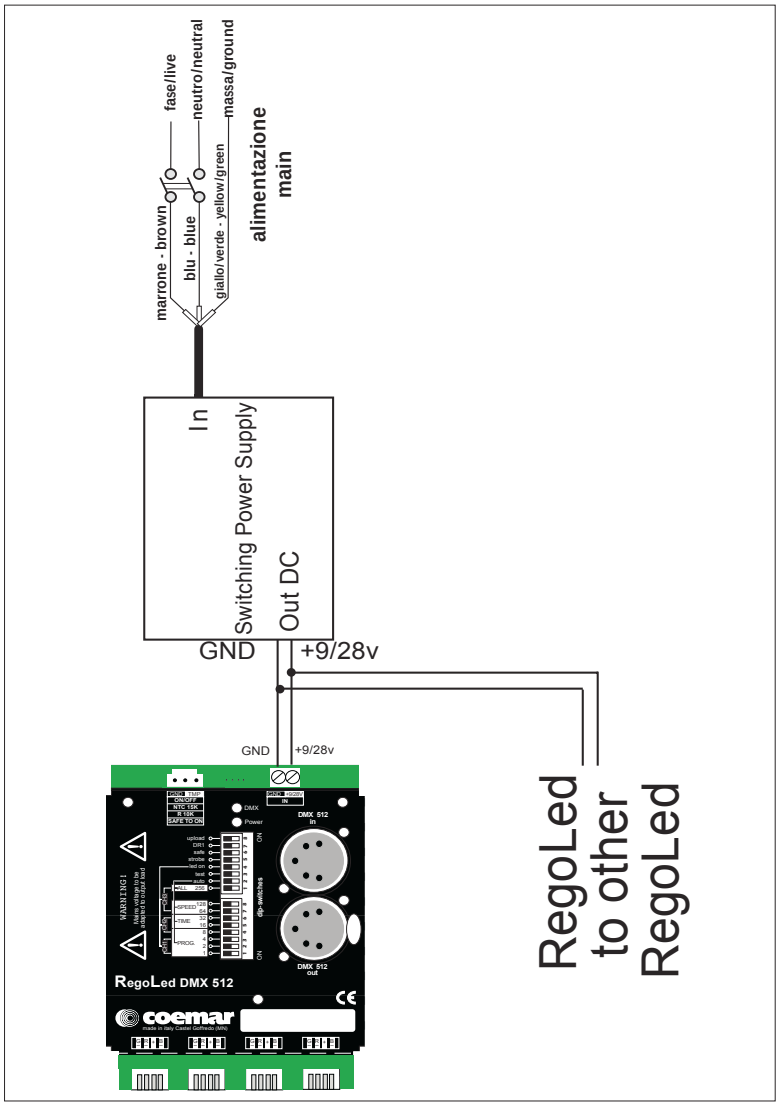
2) The DMX address may be altered without the need to power down the **RegoLed**.

1.Powering up

RegoLed's input voltage must be kept to between **9** and **28** Volts DC, this varies according to the type of led being connected. For example, for a strip of **LineaLed 1ch** which operates at a voltage of around **12 V**, an input voltage of 12 V is necessary for the **Regoled.** A **LineaLed Multicolor which operates at a voltage of around 24 V** requires an input voltage of 24V to the **RegoLed.** This system allows the user to utilise a single DMX controller regardless of the type of Led strip being used.
The **Coemar** sales network has available a range of power supplies which provide the constant current output necessary for maintaining a constant luminosity along each led in one or more strips of LineaLed

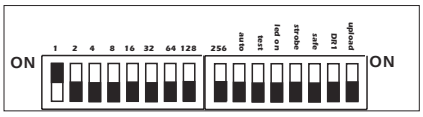
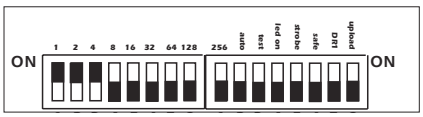
1.1 Maximum current draw

RegoLed supports a maximum current draw of 7 Amps across at least two output circuits.



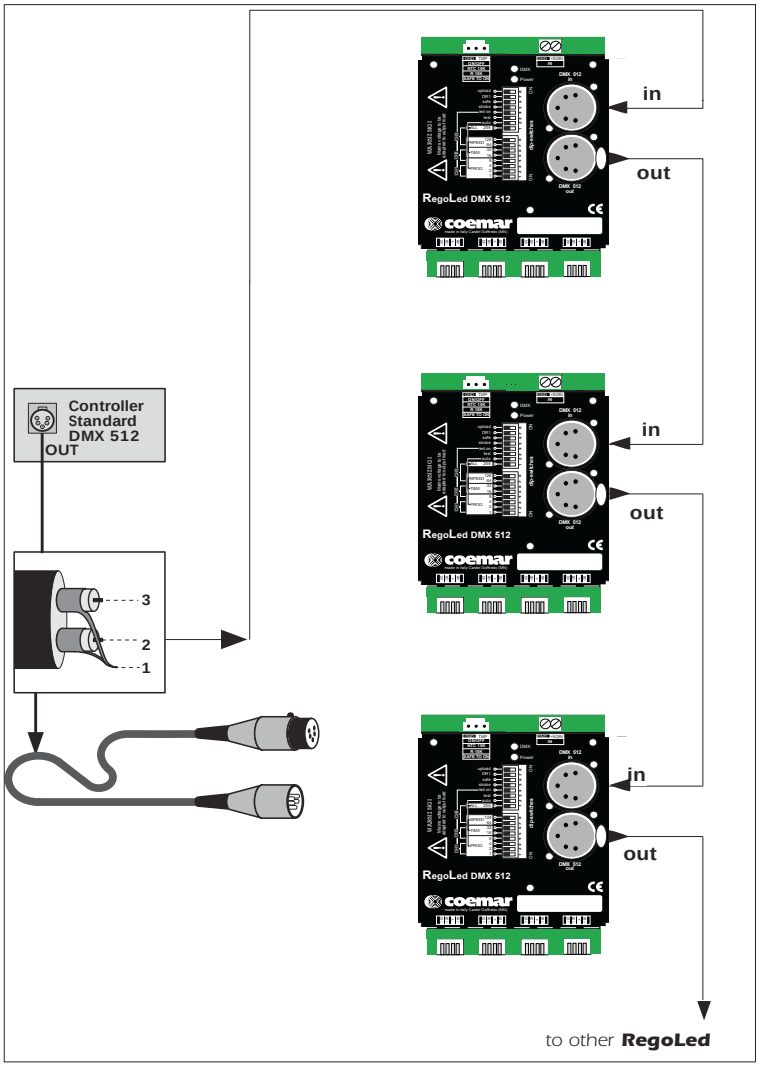
2. DMX 512 addressing

Set the DMX 512 to which **Regoled will respond.**
Regoled utilises 6 channels of DMX.
example

	**Regoled number 1** Address **DMX 001**
	**Regoled number 2** Address **DMX 007**

3. DMX 512 signal connection

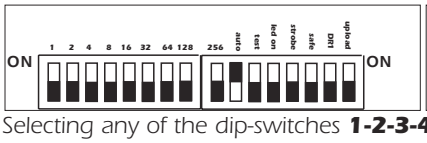
example



4.Dip-Switch functions

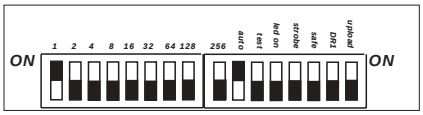
4.1 Auto function (dip-switch AUTO)

Setting the dip-switch to the **ON** position activates the ***master/slave*** function.
this function inhibits DMX control.
If dip-switches **1** to **9** are set to the **OFF position**, **Regoled** is set up to act as a ***slave***
example.

	***RegoLed*** set as ***slave***

Selecting any of the dip-switches **1-2-3-4-9** offers the opportunity of running a program:
Dip switches **1-2-3-4** activated programs Prog.1-prog.2-prog.3-prog.4 respectively.
Dip-switch **9** will run all the programs sequentially.
It is possible to run a single program.

example.



RegoLed** set as **master running program 1

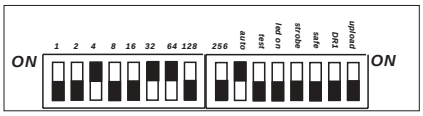
*Dip-switches **5** and **6** determine the program hold time.*

time (wait time)		
dip-switch 5	*dip-switch 6*	
off	*off*	*wait time 3 seconds*
on	*off*	*wait time 10 seconds*
off	***on***	*wait time 30 seconds*
on	***on***	*wait time 1 minute*

*Dip-switches **7** and **8** determine the speed of the program.*

time (wait time)		
dip-switch 5	*dip-switch 6*	
off	*off*	*wait time 3 seconds*
on	*off*	*wait time 10 seconds*
off	***on***	*wait time 30 seconds*
on	***on***	*wait time 1 minute*

example.

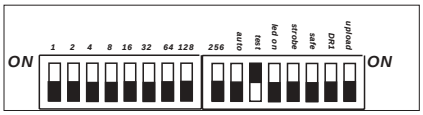


RegoLed** set as **master running program 3 with a wait time of 30 sec. and a fade time of 10 sec.

N.B. Dip-switch n.10 should be set to OFF if you want to use Regoled with other functions as it takes precedence over all the other dip-switches.
It is important to note that DMX signal must be disconnected when this function is activated in order to avoid conflicts.

4.2 Test function (dip-switch TEST)

*Allows the testing of every channel of the **Regoled** without the need for a controller.*
eg.



*Setting the dip-switch to **ON** allows **regoled** to quickly **test** all channels sequentially.*

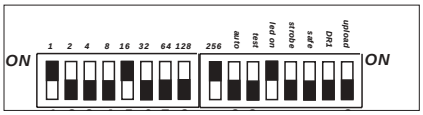
4.3. Led function ON (dip-switch LED ON)

*It is possible to ensure that all leds connected to the **Regoled** stay on.and to alter their intensity. This function is activated by setting the **LED ON** dip-switch **to the ON position and following the combinations outlined in the table below:***

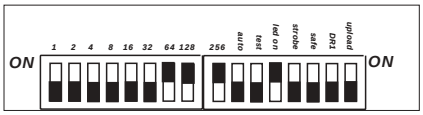
dip-switch 1	*dip-switch 2*	*dip-switch 3*	***channel 1 (red)***
on	*off*	*off*	*channel 1 luminous intensit 20%*
off	***on***	*off*	*channel 1 luminous intensit 30%*
on	***on***	*off*	*channel 1 luminous intensit 40%*
off	*off*	***on***	*channel 1 luminous intensit 50%*
on	*off*	***on***	*channel 1 luminous intensit 60%*
off	***on***	***on***	*channel 1 luminous intensit 80%*
on	***on***	***on***	*channel 1 luminous intensit 100%*
dip-switch 4	*dip-switch 5*	*dip-switch 6*	***channel 2 (green)***
on	*off*	*off*	*channel 2 luminous intensity 20%*
off	***on***	*off*	*channel 2 luminous intensit 30%*
on	***on***	*off*	*channel 2 luminous intensity 40%*
off	*off*	***on***	*channel 2 luminous intensity 50%*
on	*off*	***on***	*channel 2 luminous intensity 60%*
off	***on***	***on***	*channel 2 luminous intensity 80%*
on	***on***	***on***	*channel 2 luminous intensit 100%*
dip-switch 7	*dip-switch 8*	*dip-switch 9*	***channel 3 (blue)***
on	*off*	*off*	*channel 3 luminous intensity 20%*
off	***on***	*off*	*channel 3 luminous intensity 30%*
on	***on***	*off*	*channel 3 luminous intensit 40%*
off	*off*	***on***	*channel 3 luminous intensit 50%*
on	*off*	***on***	*channel 3 luminous intensit 60%*
off	***on***	***on***	*channel 3 luminous intensit 80%*
on	***on***	***on***	*channel 3 luminous intensity 100%*

N.B. The three channel dip-switches set to the OFF position represent to the leds being off.

example



*dip-switch **LED ON** set to **ON** channel n.**1** at **20%**, channel n.**2** at **30%** and channel n.**3** at **60%***

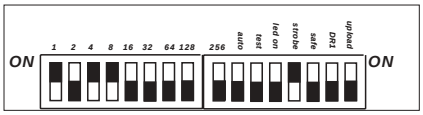


*dip-switch **LED ON** set to on **ON** channel n.**1 off**, channel n.**2 off and** channel n.**3** at **100%***

N.B. If dip-switch Led ON is set to on DMX signal is inactive

4.4. Strobe function (STROBO dip-switch)

*Setting **STROBO** dip-switch to the **ON position** activates an accessory channel channel n.5 see DMX table) which activate the strobe effect.*
eg.



*DMX address **13** strobe effect activated*

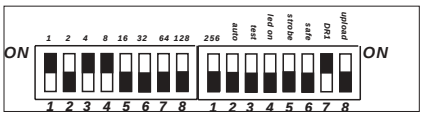
*With the dip-switch set to the **OFF** position, the strobe effect is deactivated*

4.5. Safe mode effect (SAFE dip-switch)

*Setting the **SAFE** dip-switch to the **ON position activates a** protection with NTC 15K, 10K variable resistance dimmer. With this function, it is possible to dim the output of the leds using a potentiometer.*

4.6. DR1 function (DR1 dip-switch)

*Setting dip-switch **15** to the **ON position** bypasses hardware information and allows dialog with the **DR1***
eg.



*With this function, it is possible alter the dmx address and adjust **Regoled** settings without the need to adjust dip switches.*

4.7 Upload function (UPLOAD dip-switch)

*Allows **uploading to occur**, this dip-switch **is activated only when needed.***

5. Led.signals

*Three different leds indicate the operational state of your **Regoled**.*

Led	*Function*	*Led on*	*Led off*	*Led flashing*
Green	*circuit powered on*	*Present*	*absent*	*nil*
Yellow	*DMX state*	*DMX present bad connection*	*DMX absent*	*DMX OK*
Red	*Circuit error message*	*Circuit overloaded or high temperature*	*system OK*	*the type of flashing suggests one of four error types* ***-1 flash*** ***-2 consecutive flashes*** ***-3 consecutive flashes*** ***-4 consecutive flashes***

6. Frequently asked questions

Question	***Answer***
What is the maximum length strip which may be connected to the Regoled output?	*The maximum length varies with the type of LineaLed being used and the powersupply being used.* *In LineaLED's technical information, nominal current draw for individual different coloured modules are stated. To calculate the number of LineaLeds which may be connected to a Regoled divide the maximum current draw for your particular powersupply by the nominal draw for each module.* *The maximum number of modules connected in series, "daisy-chained", is also limited by the powersupply and the voltage loss along each module, which reduces the luminosity of the LEDs furthest from the supply. Note, too, that the first module in the chain will need to sustain the total current draw of all the modules connected to it. This is an additional limiting factor to the number of modules which may be connected. The maximum current draw for the* ***RegoLed is 7A arranged over at least two outlets.*** *For LineaLed strips connected in parallel, the maximum draw over the four outlets is* ***7A.***
What is the maximum number of Regoled units which can be connected to a single powersupply unit.?	*This depends solely upon the powersupply.* *For example, if you had a 200VA powersupply, this would allow for up to three fully loaded Regoled units - around 6m of LineaLed Multicolor for each Regoled.* *The bigger the rating of the powersupply, the higher the number of Regoled units which may be connected.*
Can LineaLed strips be connected in series separated by extension cables.?	*LineaLed can be connected in this manner, remembering the maximum length and the limits determined by the maximum output current of the RegoLed* ***(7A) which must be distributed over more than one outlet.***
What type of cable is needed to connect LineaLed and RegoLed?	*This is noted in the LineaLed manual and is available on our web site.*

7.DMX signal functions

channel	function	type of control	effect	decimal			percentage		
1	master dimmer	proportional	adjust output intensity from 0 to 100%	0	-	255	0%	-	100%
2	red	proportional	proportional control of the percentage of red colour from 0 to	0	-	255	0%	-	100%
2	speed	proportional	fade speed between colours from fast to slow (from 1second to 1 minute)	0	-	255	0%	-	100%
note 1: channel 2 has various functions depending upon the selection made on channel 6									
3	green	proportional	proportional control of the percentage of green colour from 0 to 100%	0	-	255	0%	-	100%
3	pause	proportional	controls the pause time between colours (steps) selected via channel 6; the pause time is adjustable proportionally from 1second/3.30	0	-	255	0%	-	100%
note 2: channel 3 has various functions depending upon the selection made on channel 6									
4	blue	proportional	proportional control of the percentage of blue colour from 0 to 100%	0	-	255	0%	-	100%
5	Strobe effect	step	no effect	0	-	9	0%	-	4%
		proportional	variable speed strobing effect, from slow to fast	10	-	57	4%	-	22%
		step	stop strobe	58	-	59	23%	-	23%
		proportional	sequenced pulse effect, slow closing, fast opening (variable speed pulsing, from slow to fast)	60	-	108	24%	-	42%
		step	stop strobe	109	-	110	43%	-	43%
		proportional	sequenced pulse effect, slow closing, fast opening (variable speed pulsing, from slow to fast)	111	-	159	44%	-	62%
		step	stop strobe	160	-	161	63%	-	63%
		proportional	random strobe effect with variable speed from slow to fast and synchronised colours	162	-	207	64%	-	81%
		step	stop strobe	208	-	209	82%	-	82%
		proportional	random strobe effect with variable speed from slow to fast and non-synchronised colours	210	-	255	82%	-	100%
note 3: if dip switch 13 is set to on, the DMX table indicates the activation of an accessory channel (5) for strobe effects									
6	automated functions	step	no effect	0	-	9	0%	-	4%
			automated program 1	10	-	50	4%	-	20%
			automated program 2	51	-	91	20%	-	36%
			automated program 3	92	-	132	36%	-	52%
			automated program 4	133	-	173	52%	-	68%
			random program repeat	174	-	214	68%	-	84%
			repeat all programs in sequence	215	-	255	84%	-	100%
note 4: pause and speed settings are added									

8.Spare parts

*All the components of the **Regoled** are available as spare parts from your **Coemar** service centre.*
Specifying in detail the model number of the device and an accurate description of the specific parts required will assist us in meeting your request accurately and promptly.

9.Problems and solutions

Problem	Possible solution
RegoLed won't turn on	No mains voltage supply to Regoled. Check that the green led is on and, if not, check **the input and output voltage at the transformer**
RegoLed will not respond to DMX signal.	-DMX signal is not being sent to **RegoLed**: **Check if the led indicating the presence of dmx if flashing. If not, check the output of your DMX controller and any cabling.** -Dip-switch number 10 may be set to ON. This may conflict with incoming **DMX signal.** -Dip-switch number 12 may be set to ON. This will stop any incoming **DMX signal.** -**RegoLed** may be incorrectly DMX addressed. Check the address setting.
RegoLed has been set to auto mode but will not run programs	-Dip-switch n.10 (auto) must be set to ON and a program selected (dip-switches 1-2-3-4-9 see section 4.1). -Multiple selections may have been made. Select only one **program at a time.**
The red led is on	-The output circuit has been overloaded or the ambient temperature is too high.
The red led is flashing	-Error signal. **Four different flashing modes:** **-1 flashing** **-2 consecutive flashes** **-3 consecutive flashes** **-4 consecutive flashes** For further information, consult your **Coemar** service centre.