

FEC HELIPORTS & HELIPORT EQUIPMENT

Designed, Manufactured and Installed...we do it all.

# **FEC Remote Lighting Controller**

## with optional Weather Station

Effective operator or pilot control of Helipad Lighting is critical to the safe operation of an installation and traditional Radio Pilot Controlled Lighting (PCL) solutions using the VHF radio is a tried and trusted method.

Now there is a new way to control your lighting and peripheral circuits using FEC's new Remote Lighting Controller (RLC) which integrates both traditional VHF PCL and adds SMS control and monitoring with the option of automatic weather reporting (wind speed/direction, temperature, dew point and pressure) right from your helipad.

FEC's Remote Lighting Controller is an all new, fully digital design that combines ease of installation and use with sophisticated yet simple and secure configuration via the IP65 rated keypad and LCD display or via SMS.



For more information contact us at: sales@heliportsequipment.com www.heliportsequipment.com - www.fecheliports.com



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Designed, Manufactured and Installed...we do it all.

The best of both worlds - FEC's all new Remote Lighting Controller takes a fresh approach to controlling your lighting installation – applying sophisticated microcontrollers to integrate and control a traditional PCL with the added ease and convenience of control and monitoring via any mobile device that can send and receive text messages (SMS).

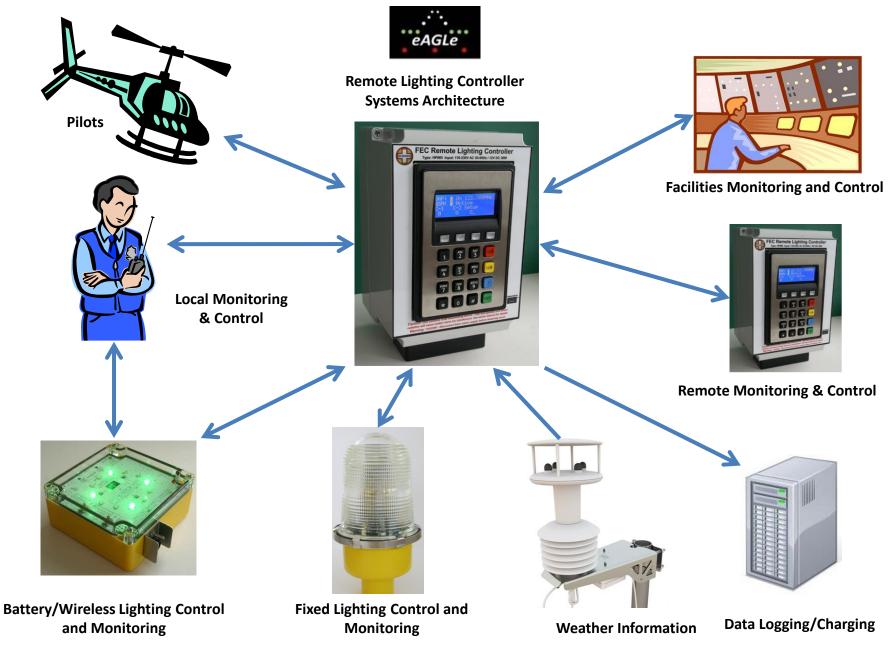
There are three microcontrollers dedicated to making FEC's RLC both powerful but incredibly easy to use - everything can be securely configured (there are three levels of PIN code protection) through the front panel – frequencies, timeout periods, operating modes, relay testing and system diagnostics. Many parameters can be checked, monitored and changed via simple text messages (using the same secure PIN codes).

We are not just selling you a box but a service - forgot your PIN code? – no problem, call us up and we can reset it over the air. Over time we will be adding more functionality – remote diagnostics, web based logging and reporting – see who used the system and when.

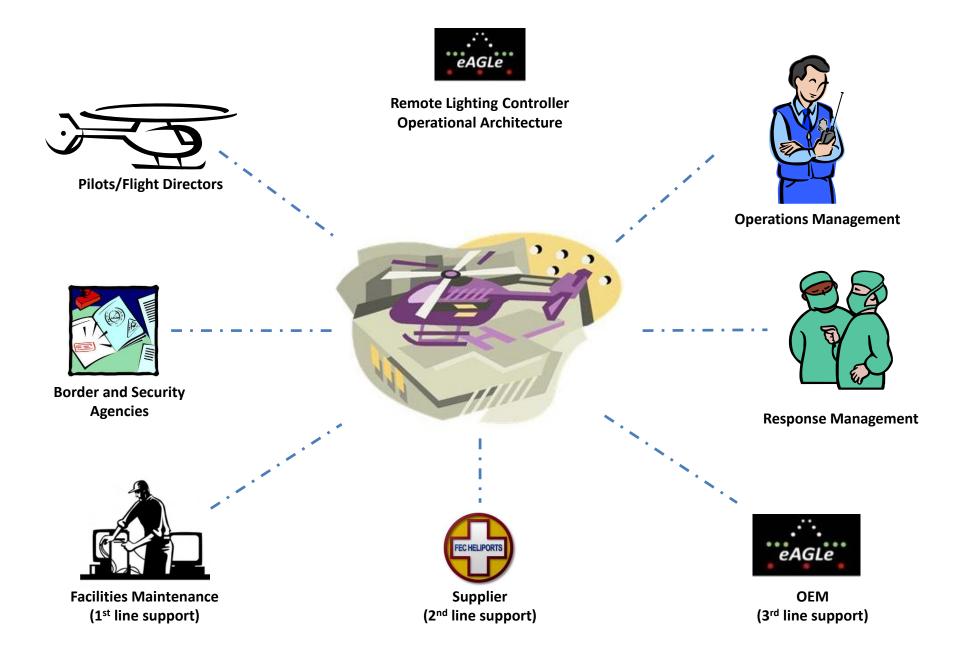
FEC's RLC is ideal for remote locations with limited or no mains power. The unit runs either from its internal 110-240V AC Power Supply Unit but can also run on 12V DC and with its incredibly low 2 Watt standby power consumption is ideal for operating from batteries charged by solar or wind generators.

### Summary of Specification

<ul> <li>System security: PIN Code (keypad and GSM)</li> <li>VHF Frequency Range: 118 to 136 MHz</li> <li>Channel spacing (current): 25kHz</li> <li>Channel spacing (future): 8.33kHz</li> <li>Frequency selection: Any channel or UNICOM</li> <li>VHF aerial: External remote mounted</li> <li>GSM Bands: Tri-Band</li> <li>Network: Operators choice subject to coverage</li> <li>Tariff: Account or pre-pay</li> <li>GSM aerial options: Internal to unit or remote mounted</li> <li>Degree of protection: IP65 (general)</li> <li>LCD and Keypad protection: IP65 and 'vandal resistant'</li> <li>Unit operating temperature: -25°C to +50°C</li> <li>System Storage temperature: -25°C to +80°C</li> <li>Compliance: ROHC Compliant</li> <li>Operating voltage (AC): 100-240V AC 50-60Hz</li> <li>Operating voltage (DC): 12V DC</li> <li>Max voltage range (DC): 10V - 15V DC</li> <li>Power (GSM transmitting): 10 watts (maximum)</li> <li>Relay capacity: 3 off 20A Relays (1 NO, 1NC) DIN rail mounting</li> <li>Max power consumption: 30 watts (including optional winter heater)</li> <li>Size (Height, Depth, Width): H - 11" (280mm), D - 6.5" (165mm), W - 7" (180mm)</li> <li>Weight: 5.5lbs (2.5kg)</li> <li>Warranty: 2 years return to FEC (excluding relays)</li> </ul>	•	Controller modes:	3 - Local keypad, VHF PCL or GSM/SMS or both
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<ul> <li>Size (Height, Depth, Width): H - 11" (280mm), D - 6.5" (165mm), W - 7" (180mm)</li> <li>Weight: 5.5lbs (2.5kg)</li> <li>Warranty: 2 years return to FEC</li> </ul>	٠	Max power consumption:	30 watts (including optional
<ul> <li>(165mm), W - 7" (180mm)</li> <li>Weight: 5.5lbs (2.5kg)</li> <li>Warranty: 2 years return to FEC</li> </ul>			•
<ul> <li>Weight: 5.5lbs (2.5kg)</li> <li>Warranty: 2 years return to FEC</li> </ul>	٠	Size (Height, Depth, Width):	
• Warranty: 2 years return to FEC			
	٠	-	
(excluding relays)	٠	Warranty:	-
			(excluding relays)



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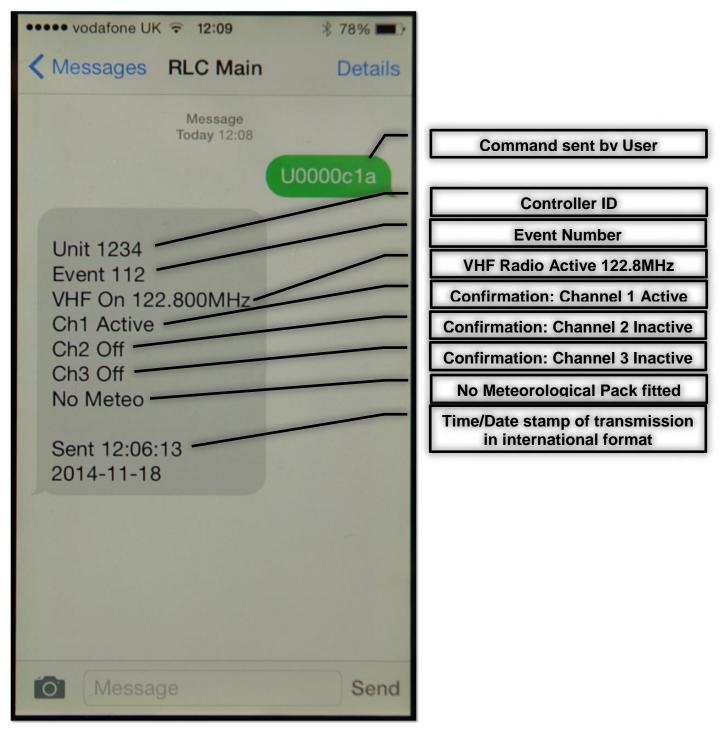




#### 4.6 System Response – To User – No Meteorological Pack fitted

The controller will respond to the caller (either User or Operator) with confirmation of the system status.

The standard response is shown in the screen shot of an iPhone below:





#### 4.7 System Response – To User – Meteorological Pack fitted – No Altitude Set

The standard response is shown in the screen shot of an iPhone below if a MetPak is fitted but altitude NOT set. If the meteorological station altitude is not set, no pressure information is sent.

••••• vodafone UK 🗢 12:13 🕺 76% 🔳	
Kessages RLC Main Details	Controller ID
	Event Number
Unit 1234 Event 122	VHF Radio Active 122.8MHz
VHF On 122.800MHz Ch1 Active	Confirmation: Channel 1 Active
Ch2 Off	Confirmation: Channel 2 Inactive
Ch3 Off	Confirmation: Channel 3 Inactive
Meteo Follows	Meteorological reporting option fitted – information to follow
Sent 12:10:06	Time/Date stamp of transmission in international format
FEC RLC 1234/Q	Controller/Meteo ID
Meteo Alt. Not Set	Caution: Meteo altitude not set
Wind 170 0.0Knots	Caution
Pressure N/A	Wind Direction and Speed
Temperature 24.7C Dewpoint 8.3C RH 035%	Barometric Pressure not sent as Meteo Altitude not set
11100070	Temperature
Sent 12:10:11	Dewpoint
2014-11-18	Relative Humidity
Message Send	Time/Date Stamp



#### 4.8 System Response – To User – Meteorological Pack fitted – Altitude Set

The standard response is shown in the screen shot of an iPhone below if a MetPak is fitted and altitude is set. Pressure information is sent if the meteorological station altitude is set

••••• vodafone UK 🗢 12:15 🕺 75% 🖿	Э
Kessages RLC Main Details	Controller ID
	Event Number
Unit 1234	VHF Radio Active 122.8MHz
Event 125 VHF On 122.800MHz	Confirmation: Channel 1 Active
Ch1 Active	Confirmation: Channel 2 Inactive
Ch2 Off Ch3 Off	Confirmation: Channel 3 Inactive
Meteo Follows	Meteorological reporting option fitted – information to follow
Sent 12:12:01	Time/Date stamp of transmission in international format
FEC RLC 1234/Q	Controller/Meteo ID
Meteo Alt. 234ft	Meteo altitude set
Unofficial Weather Wind 170 0.0Knots	Caution
Pressure 1028.0hPa	Wind Direction and Speed
Temperature 24.7C Dewpoint 8.3C	Barometric Pressure sent as Meteo Altitude set
RH 035%	Temperature
Sent 12:12:06	Dewpoint
2014-11-18	Relative Humidity
Message Send	Time/Date Stamp
O' Message Send	A