



SmartControl

Thermostat

General

The Romulus Energy Synapses remote connect mobile application allow users to remotely monitor and control their hot water cylinder temperature and switching schedule. Synapses remote connect application works with Synapses SmartControl GPRS/Wi-Fi and Geyserswise products.

iPad / iPhone application

Login:

The user is required to register each unit with Romulus Energy (Pty) Ltd. The registration will require a valid email address and password [supplied by client]. This is used to log on to the Synapses server that will authenticate the user details and load the required device IP's and descriptions of the devices that are installed and registered.



The device details are not stored on the iPhone, so if the user upgrades to a new iPhone all that is required is the email address and password. The user can also use another person's iPhone to do the required settings.

- Email address:** valid email address that was registered at Romulus energy (Pty) Ltd.
- Password** : valid password that was supplied by client and registered at Romulus energy (Pty) Ltd.
- Login** : press this button to proceed to the device list.
- PW?** : Password [PW], press this button if you have forgotten your password. The server will automatically forward your password to the registered email address.
- Exit** : Press the Home button if you want to exit the application, or if you do not want to continue on to the device list.

Device List:

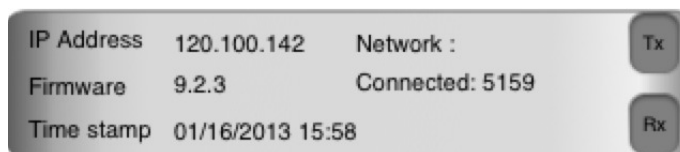


- Select device** : Select the IP address, description of the unit that you want to configure/interrogate.
- Device description** : Before you go onto the next step, verify that the description matches the one you require.
- Next** : press this button to move on to the configuration page.
- Back** : move back to the login page.
- Exit** : Press the Home button if you want to exit the application.

Configuration:



Device Information



- IP Address** : IP address of the device, this is displayed on the device and is used to identify the device. Please use this IP address if you want to report a device error or malfunction.
- Firmware** : This is the firmware [program] version that is loaded on the device. This can be requested by the manufacturer if a problem is experienced with the device.
- Time Stamp** : Date and time of the last data received from the selected device.
- Network** : This indicates the status of the network connection [internet] to the Synapses server. It is not the GSM network status.
- Tx** : Transmit - this will light up red if data is sent to the device.
- Rx** : Receive - this indication will light up green if data is received from the server.

Cylinder temperature



This will indicate the temperature of the device at the time and date indicated by the time stamp in the device information. It is indicated in degrees Celsius.

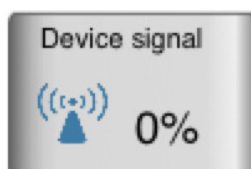
The thermometer will change from blue to orange if the cylinder temperature is above 45 degrees Celsius. No user input required.

Cylinder temperature set point



This indicates the cylinder temperature set point. This is the temperature at which the unit will control the temperature. If it is indicated in dark grey as in the picture, it is the current set point. The user can alter the set point by pressing the + [positive] to increase the set point value, and – [negative] to decrease the value. With the pressing of the + and – the colour of the set point will change to red. The pressing of the + and – will not set the temperature, the Submit button must be pressed to confirm and send the command to the unit. If the temperature is set successfully [acknowledgement received from device], the set point will change from red to dark grey.

Device signal



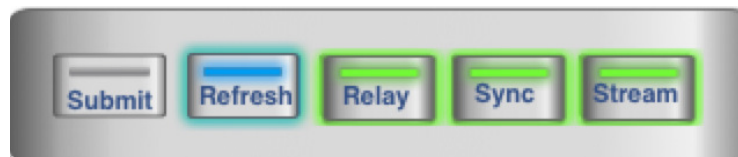
The device signal indicates the GPRS percentage signal strength of the unit in the field. This is not shown for devices with Wi-Fi modules. No user input required.

Enclosure temperature



This is the degrees Celsius temperature inside the device enclosure of the unit in the field. No user input required.

Command bar



- Submit : is used to set the cylinder temperature set point.
- Refresh : is used to request the latest device information. It will lit blue if the refresh request was successful.
- Relay : is used to switch the relay of the device off [switch the element off], if lit green the relay is in the ON state.
- Sync : Synchronised, this is used to synchronise the field device time and date, if lit green it is synchronised.
- Stream : if lit green the field device is sending data to the iPhone every 60 seconds. But this will only be displayed if the application is logged in and the device is selected.

Description update



The field device description can be updated/ changed in this block and the Update [to the right] button must be pressed to submit the changes. The changes will only take effect with the next user login.

Button bar



- Update : Press this if you want update the device description.
Connect : Press this if the network status in the device information block indicates an Error.
Back : Press this if you want to return to the device list page.
Exit : Press the Home button if you want to exit the application, or if you do not want to continue.

Contact information

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