

# Technical Documents

## Index

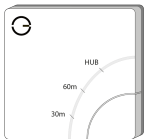
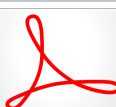
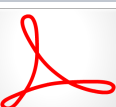
- [Wiring Diagrams](#)
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## Wiring Diagrams:

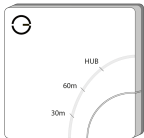


\* contains Internal Wiring diagram

## Heating Diagrams

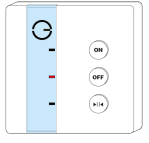
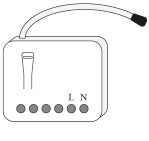
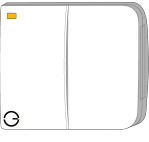
| Heating Controller                                                                                               | Combi Boiler (230v) *                                                                             | S-Plan System                                                                                     | S-Plan-Plus (Radiators)                                                                         | S-Plan-Plus (Manifold Wired to Boiler)                                                          | S-Plan-Plus (Manifold Not Wired to Boiler)                                                        | Immersion Heater *                                                                                | Electric Heating *                                                                                  |
|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Electric Switch</b><br>      | <br><b>PDF</b>   | <br><b>PDF</b>   | <br><b>PDF</b> | <br><b>PDF</b> | <br><b>PDF</b> | <br><b>PDF</b> | <br><b>PDF</b>   |
| <b>Electric Relay</b><br>     |                                                                                                   |                                                                                                   |                                                                                                 |                                                                                                 |                                                                                                   |                                                                                                   | <br><b>PDF</b>  |
| <b>Powered Thermostat</b><br> | <br><b>PDF</b> | <br><b>PDF</b> |                                                                                                 |                                                                                                 |                                                                                                   |                                                                                                   | <br><b>PDF</b> |

## Underfloor Diagrams

|                                                                                                               | Wired to Boiler                                                                                   |                                                                                                   |                                                                                                   | Not Wired to Boiler                                                                               |                                                                                                     |                                                                                                     |                       |
|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------|
| Heating Controller                                                                                            | With Wiring Centre                                                                                | Without Wiring Centre                                                                             | Single Zone                                                                                       | With Wiring Centre                                                                                | Without Wiring Centre                                                                               | Single Zone                                                                                         | Underfloor (Electric) |
| <b>Electric Switch</b><br> | <br><b>PDF</b> | <br><b>PDF</b> | <br><b>PDF</b> | <br><b>PDF</b> | <br><b>PDF</b> | <br><b>PDF</b> |                       |

|                                                                                                         |                                                                                          |                                                                                          |                                                                                          |                                                                                          |                                                                                            |                                                                                            |                                                                                            |
|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Electric Relay<br>     | <br>PDF | <br>PDF |                                                                                          | <br>PDF | <br>PDF |                                                                                            |                                                                                            |
| Powered Thermostat<br> | <br>PDF | <br>PDF | <br>PDF | <br>PDF | <br>PDF | <br>PDF | <br>PDF |

## Discontinued Devices

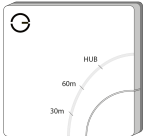
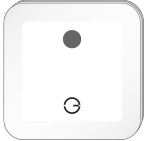
| Boiler Controllers                                                                                                                                                                                   | Combi Boiler (Volt-Free)                                                                 | Combi Boiler (230v) *                                                                     | S-Plan System (Radiators)                                                                 | S-Plan System (Underfloor Wired to Boiler)                                                | S-Plan System (Underfloor Not Wired to Boiler)                                              | Y-Plan System                                                                               | S-Plan-Plus System                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Single Channel Receiver<br>                                                                                         | <br>PDF | <br>PDF  | <br>PDF  | <br>PDF  | <br>PDF  | <br>PDF  | <br>PDF  |
| Dual Channel Receiver<br>                                                                                         |                                                                                          | <br>PDF | <br>PDF | <br>PDF | <br>PDF | <br>PDF | <br>PDF |
| In Wall Range Extender<br>                                                                                        |                                                                                          |                                                                                           |                                                                                           |                                                                                           |                                                                                             |                                                                                             |                                                                                             |
| OpenTherm Installation<br><br> |                                                                                          |                                                                                           |                                                                                           |                                                                                           |                                                                                             |                                                                                             |                                                                                             |

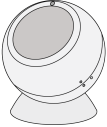
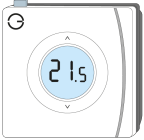
## Schematics:

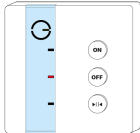
| Control system                | Schematic                                                                                                        |                                                                                                                                                                                               |
|-------------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Heating Only                  | Combination Boiler<br>          |                                                                                                                                                                                               |
| With Hot Water                | On/Off Hot Water                                                                                                 | Temperature Hot Water                                                                                                                                                                         |
|                               |                                 | <br><br>Irish Hot Water<br> |
| S-Plan-Plus                   |                                |                                                                                                                                                                                               |
| 230v Underfloor (Multi-zone)  | Wired Back to Boiler                                                                                             | Not Wired Back to Boiler                                                                                                                                                                      |
|                               | Wiring Centre:<br>            | Wiring Centre:<br>                                                                                         |
|                               | No Wiring Centre:<br>         | No Wiring Centre:<br>                                                                                      |
|                               | Powered Room Thermostats:<br> |                                                                                                                                                                                               |
| 230v Underfloor (Single Zone) | Wired Back to Boiler                                                                                             | Not Wired Back to Boiler                                                                                                                                                                      |
|                               |                               |                                                                                                            |

|                  |                                                                                                           |                                                                                                               |
|------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| 24v Underfloor   | Wired Back to Boiler<br> | Not Wired Back to Boiler<br> |
| Electric Heating |                          |                                                                                                               |

## Specifications:

| Product                                                                                                      | Specification                                                                       |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Communications Adapter<br>  |    |
| Dual Channel Receiver<br> |   |
| Electric Relay<br>        |  |
| Electric Switch<br>       |  |
| Genius Hub<br>            |  |

|                                                                                                                                  |                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <p>Genius Radiator Valve</p>                    |    |
| <p>Genius Radiator Valve (discontinued)</p>     |    |
| <p>Genius Room Sensor</p>                       |    |
| <p>Genius Motion Sensor</p>                    |    |
| <p>Genius Room Thermostat (discontinued)</p>  |  |
| <p>Genius Smart Plug</p>                      |  |
| <p>Genius Smart Plug (discontinued)</p>       |  |

|                                                                                                                               |                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <p>Genius Smart Plug<br/>(discontinued)</p>  |    |
| <p>In Wall Range Extender</p>                |    |
| <p>Powered Room Thermostat</p>               |    |
| <p>Single Channel Receiver</p>              |   |
| <p>Underfloor Wiring Centre</p>            |  |
| <p>Wireless Room Thermostat</p>            |  |

Partner Documents

| Company | Product Information |
|---------|---------------------|
|---------|---------------------|

|                                                                                    |  |                                                                                    |                                                                                     |                                                                                      |                                                                                      |
|------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                                                                                    |  |                                                                                    |                                                                                     |                                                                                      |                                                                                      |
| Effective Energy Systems                                                           |  | T17 Panel Heater                                                                   | TALIA Towel Rail                                                                    |                                                                                      |                                                                                      |
|   |  |   |   |                                                                                      |                                                                                      |
| Jigsaw Infrared                                                                    |  | ECO Aluminum                                                                       | Pegasi Premium Glass                                                                | Sirius Premium Glass                                                                 | Power Heater                                                                         |
|   |  |   |   |   |   |
| JK Floorheating                                                                    |  | Single Zone Underfloor                                                             | Multi-Zone Underfloor                                                               | Single Zone Underfloor (Powered Room Thermostat)                                     | Multi-Zone Underfloor (Powered Room Thermostat)                                      |
|  |  |  |  |  |  |

#### Related Information:

- [Technical Documents](#)
- [5. Installing the Underfloor Receiver Units](#)
- [6. Installing the Electric Heating](#)
- [3. Installing the boiler Receiver Units](#)
- [8. Installing the Range Extenders](#)