

Manutec
L•I•M•I•T•E•D

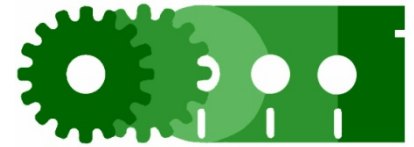
Doonbeg Golf Club

Overview

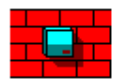


- Design & Manufacture of a Control System for Doonbeg Golf Resort.
- This included:
 - Supervisor Graphics for the entire site, giving the user control over the Compensated Heating Circuits, Under floor heating, Air Handling Unit Controls for the Lodge Building Kitchen, Bar, Changing Rooms, Spa and Pro-shop Bar, Changing Rooms and Kitchen

Overview



- Other specifications included:
 - BMS incorporated individual Room Control interfaces that provide the guest with the ability to enable/disable room ventilation and also to adjust the temperature set point for each room in a total of 47 suites.
 - Monitoring of Energy Consumption including gas, water and energy use of each suite.



5.0°C

FIRE ALARM

GAS ALARM



Lodge Building Boilerhouse

MENU

LAYOUT

PUMPS

- | | | |
|-------------------------------|--------------------------|-------|
| First Stage Frost | <input type="checkbox"/> | Alarm |
| Second Stage Frost | <input type="checkbox"/> | Alarm |
| Mains Water Booster Fault | <input type="checkbox"/> | O.K. |
| Fire Hose Reel Booster Fault | <input type="checkbox"/> | Alarm |
| Water Conditioner Panel Fault | <input type="checkbox"/> | Alarm |
| CWS Tank Lo Level Fault | <input type="checkbox"/> | Alarm |

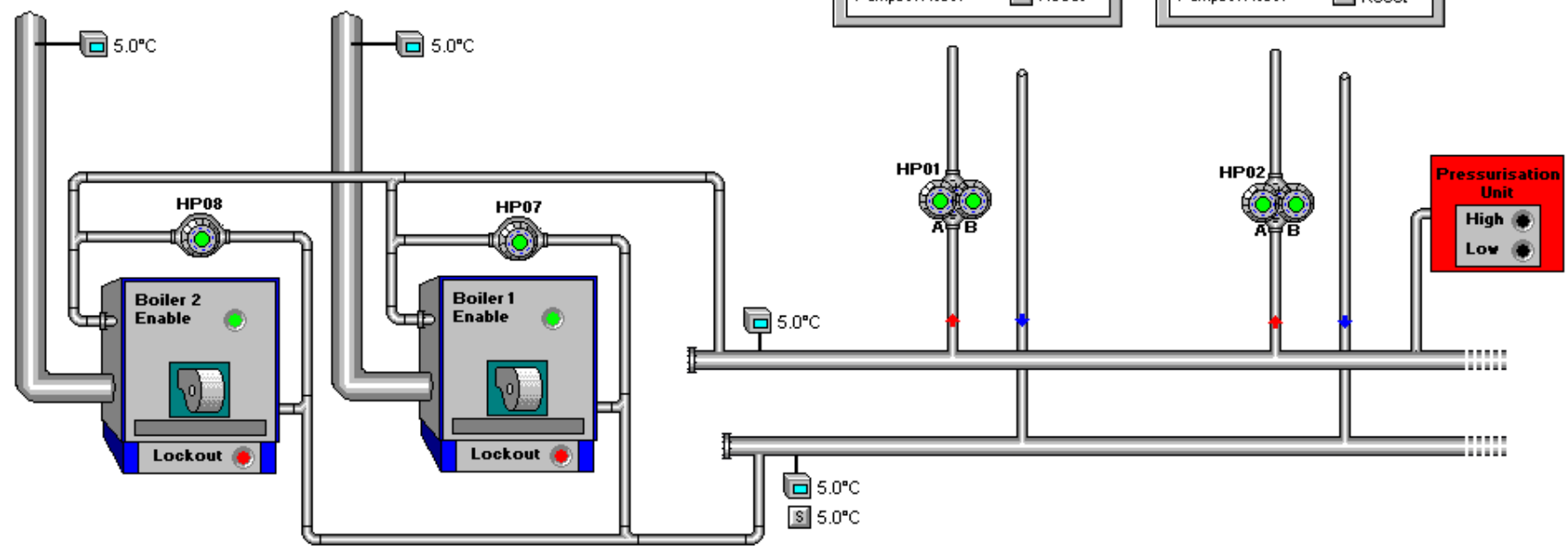
**Lodge Suites
Constant Temp Circuit**

HP01A On/Off	<input checked="" type="checkbox"/>	On
HP01B On/Off	<input checked="" type="checkbox"/>	On
Pumpset Current Sw	<input checked="" type="checkbox"/>	Run
HP01A Failed	<input type="checkbox"/>	Fail
HP01B Failed	<input type="checkbox"/>	Fail
Pumpset Reset	<input type="checkbox"/>	Reset

**Lodge AHUs
Constant Temp Circuit**

HP02A On/Off	<input checked="" type="checkbox"/>	On
HP02B On/Off	<input checked="" type="checkbox"/>	On
Pumpset Current Sw	<input checked="" type="checkbox"/>	Run
HP02A Failed	<input type="checkbox"/>	Fail
HP02B Failed	<input type="checkbox"/>	Fail
Pumpset Reset	<input type="checkbox"/>	Reset

TIME SCHEDULE
 EDIT





3.0°C

FIRE ALARM



Proshop - Air Handling Unit 02

MENU

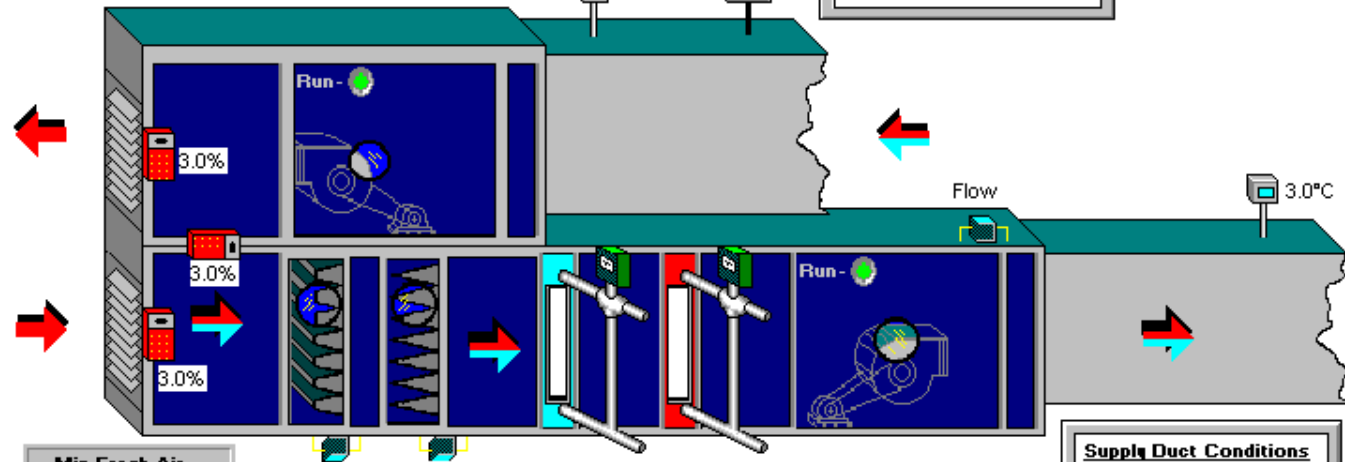
LAYOUT

CO2 Air Quality Sensor

- Very Good
- Good
- Fair
- Poor
- Very Poor

Return Duct Setpt 3.0°C
Return Duct Temp 3.0°C

CO₂



Min Fresh Air
Set 3.0%

Alarm Alarm

Cooling Valve
Modulation 3.0%

Heating Valve
Modulation 3.0%

Supply Duct Conditions
Max Limit 3.0°C
Min Limit 3.0°C



Lodge Building Suite 14

MENU
LAYOUT

Gas Meter (m3) (€)

Total Usage Since Reset	3.0m3	3.0L
Reset	<input type="checkbox"/> Reset	
Hourly Usage	3.0m3	
Weekly Usage	3.0m3	3.0L
Cost Per Unit	<input type="checkbox"/> 3.0L	

LPHW Energy Meter (kWh) (€)

Total Usage Since Reset	3.0kWh	3.0L
Reset	<input type="checkbox"/> Reset	
Hourly Usage	3.0kWh	
Weekly Usage	3.0kWh	3.0L
Cost Per Unit	<input type="checkbox"/> 3.0L	

CHW Energy Meter (kWh) (€)

Total Usage Since Reset	3.0kWh	3.0L
Reset	<input type="checkbox"/> Reset	
Hourly Usage	3.0kWh	
Weekly Usage	3.0kWh	3.0L
Cost Per Unit	<input type="checkbox"/> 3.0L	

First Floor Living Room FCU

TIME SCHEDULE

Mon	<input checked="" type="checkbox"/>	Fan Coil Unit On/Off	<input checked="" type="checkbox"/> On
Tue	<input checked="" type="checkbox"/>	Fan Coil Unit Override	<input type="checkbox"/> Off
Wed	<input checked="" type="checkbox"/>	Room Temperature	3.0°C
Thu	<input checked="" type="checkbox"/>	Room Temperature Setpt	3.0°C
Fri	<input checked="" type="checkbox"/>	Heating Valve	3.0%
Sat	<input checked="" type="checkbox"/>	Cooling Valve	3.0%
Sun	<input checked="" type="checkbox"/>		

Second Floor Bedroom 1 FCU

TIME SCHEDULE

Mon	<input checked="" type="checkbox"/>	Fan Coil Unit On/Off	<input checked="" type="checkbox"/> On
Tue	<input checked="" type="checkbox"/>	Fan Coil Unit Override	<input type="checkbox"/> Off
Wed	<input checked="" type="checkbox"/>	Room Temperature	3.0°C
Thu	<input checked="" type="checkbox"/>	Room Temperature Setpt	3.0°C
Fri	<input checked="" type="checkbox"/>	Heating Valve	3.0%
Sat	<input checked="" type="checkbox"/>	Cooling Valve	3.0%
Sun	<input checked="" type="checkbox"/>		

First Floor Bedroom 1 FCU

TIME SCHEDULE

Mon	<input checked="" type="checkbox"/>	Fan Coil Unit On/Off	<input checked="" type="checkbox"/> On
Tue	<input checked="" type="checkbox"/>	Fan Coil Unit Override	<input type="checkbox"/> Off
Wed	<input checked="" type="checkbox"/>	Room Temperature	3.0°C
Thu	<input checked="" type="checkbox"/>	Room Temperature Setpt	3.0°C
Fri	<input checked="" type="checkbox"/>	Heating Valve	3.0%
Sat	<input checked="" type="checkbox"/>	Cooling Valve	3.0%
Sun	<input checked="" type="checkbox"/>		

Second Floor Bedroom 2 FCU (RHS)

TIME SCHEDULE

Mon	<input checked="" type="checkbox"/>	Fan Coil Unit On/Off	<input checked="" type="checkbox"/> On
Tue	<input checked="" type="checkbox"/>	Fan Coil Unit Override	<input type="checkbox"/> Off
Wed	<input checked="" type="checkbox"/>	Room Temperature	3.0°C
Thu	<input checked="" type="checkbox"/>	Room Temperature Setpt	3.0°C
Fri	<input checked="" type="checkbox"/>	Heating Valve	3.0%
Sat	<input checked="" type="checkbox"/>	Cooling Valve	3.0%
Sun	<input checked="" type="checkbox"/>		

Second Floor Bedroom 3 FCU (LHS)

TIME SCHEDULE

Mon	<input checked="" type="checkbox"/>	Fan Coil Unit On/Off	<input checked="" type="checkbox"/> On
Tue	<input checked="" type="checkbox"/>	Fan Coil Unit Override	<input type="checkbox"/> Off
Wed	<input checked="" type="checkbox"/>	Room Temperature	3.0°C
Thu	<input checked="" type="checkbox"/>	Room Temperature Setpt	3.0°C
Fri	<input checked="" type="checkbox"/>	Heating Valve	3.0%
Sat	<input checked="" type="checkbox"/>	Cooling Valve	3.0%
Sun	<input checked="" type="checkbox"/>		

Further Information



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