

Point No.	Ref.	System / Zone	Plant / Device	Point Description	BMS Function	I/O Type	Signal / Interface	Alarm / Action
1	B.01	Boiler Cascade	Boiler 1	Boiler Enable	Enable / disable Boiler 1 from the boiler cascade / BMS control sequence.	DO	Volt-free contact / interposing relay to 230 V enable circuit	Control output
2	B.02	Boiler Cascade	Boiler 2	Boiler Enable	Enable / disable Boiler 2 from the boiler cascade / BMS control sequence.	DO	Volt-free contact / interposing relay to 230 V enable circuit	Control output
3	B.03	Boiler Cascade	Boiler 3	Boiler Enable	Enable / disable Boiler 3 from the boiler cascade / BMS control sequence.	DO	Volt-free contact / interposing relay to 230 V enable circuit	Control output
4	BC.01	Boiler Cascade	Cascade Controller / MCC.01	Boiler Cascade Run Status	Confirm boiler cascade is enabled and operational.	DI	Volt-free contact	Status
5	BC.01	Boiler Cascade	Cascade Controller / MCC.01	Boiler Cascade Trip / Fault	Generate a common boiler cascade trip / fault alarm at the BMS.	DI	Volt-free contact	Alarm
6	BC.01	Boiler Cascade	Cascade Controller / MCC.01	Boiler Cascade Frost Condition	Monitor cascade frost condition / frost protection status.	DI	Volt-free contact	Control / alarm condition
7	P.01	School Heating Circuit	Heating Circuit Pump	Pump Enable	Start / stop School heating circuit pump in accordance with BMS time and temperature demand.	DO	MCC contactor / pump enable relay	Control output
8	P.01	School Heating Circuit	Heating Circuit Pump	Pump Run Status	Confirm School heating circuit pump operation.	DI	Volt-free contact	Status

Point No.	Ref.	System / Zone	Plant / Device	Point Description	BMS Function	I/O Type	Signal / Interface	Alarm / Action
9	P.01	School Heating Circuit	Heating Circuit Pump	Pump Fault	Generate School heating circuit pump fault alarm.	DI	Volt-free contact	Alarm
10	P.02	Sports Hall Heating Circuit	Heating Circuit Pump	Pump Enable	Start / stop Sports Hall heating circuit pump in accordance with BMS time and temperature demand.	DO	MCC contactor / pump enable relay	Control output
11	P.02	Sports Hall Heating Circuit	Heating Circuit Pump	Pump Run Status	Confirm Sports Hall heating circuit pump operation.	DI	Volt-free contact	Status
12	P.02	Sports Hall Heating Circuit	Heating Circuit Pump	Pump Fault	Generate Sports Hall heating circuit pump fault alarm.	DI	Volt-free contact	Alarm
13	PU.01	LPHW Pressurisation	Pressurisation / Auto Fill Unit	Run Status	Confirm pressurisation / auto fill unit operational status.	DI	Volt-free contact	Status
14	PU.01	LPHW Pressurisation	Pressurisation / Auto Fill Unit	High Limit Alarm	Monitor high pressure / high limit condition and generate BMS alarm.	DI	24 V / volt-free contact	Alarm
15	PU.01	LPHW Pressurisation	Pressurisation / Auto Fill Unit	Low Limit Alarm	Monitor low pressure / low limit condition and generate BMS alarm.	DI	24 V / volt-free contact	Alarm
16	MV-1	Sports Hall Heating	UH.01 2-Port Valve	Valve Open / Close Command	Open 2-port valve on demand from the Sports Hall heating control sequence.	DO	24 V motorised valve actuator	Control output
17	MV-2	Sports Hall Heating	UH.02 2-Port Valve	Valve Open / Close Command	Open 2-port valve on demand from the Sports Hall heating control sequence.	DO	24 V motorised valve actuator	Control output

Point No.	Ref.	System / Zone	Plant / Device	Point Description	BMS Function	I/O Type	Signal / Interface	Alarm / Action
18	MV-3	Sports Hall Heating	UH.03 2-Port Valve	Valve Open / Close Command	Open 2-port valve on demand from the Sports Hall heating control sequence.	DO	24 V motorised valve actuator	Control output
19	MV-4	Sports Hall Heating	UH.04 2-Port Valve	Valve Open / Close Command	Open 2-port valve on demand from the Sports Hall heating control sequence.	DO	24 V motorised valve actuator	Control output
20	UH.01	Sports Hall Heating	Unit Heater 1	Unit Heater Enable	Enable Unit Heater 1 fan in accordance with Sports Hall heating / destratification sequence.	DO	Volt-free contact / interposing relay to 230 V enable circuit	Control output
21	UH.02	Sports Hall Heating	Unit Heater 2	Unit Heater Enable	Enable Unit Heater 2 fan in accordance with Sports Hall heating / destratification sequence.	DO	Volt-free contact / interposing relay to 230 V enable circuit	Control output
22	UH.03	Sports Hall Heating	Unit Heater 3	Unit Heater Enable	Enable Unit Heater 3 fan in accordance with Sports Hall heating / destratification sequence.	DO	Volt-free contact / interposing relay to 230 V enable circuit	Control output
23	UH.04	Sports Hall Heating	Unit Heater 4	Unit Heater Enable	Enable Unit Heater 4 fan in accordance with Sports Hall heating / destratification sequence.	DO	Volt-free contact / interposing relay to 230 V enable circuit	Control output
24	UH-COM	Sports Hall Heating	Unit Heaters	Common Run Status	Confirm common Unit Heater operating status at the BMS.	DI	Volt-free contact	Status
25	UH-COM	Sports Hall Heating	Unit Heaters	Common Trip / Fault	Generate common Unit Heater trip / fault alarm at the BMS.	DI	Volt-free contact	Alarm
26	SW-01	Heating System	MCC.01 Summer / Winter Switch	Summer / Winter Mode Status	Indicate locally selected Summer / Winter operating mode at the BMS.	DI	Volt-free contact	Status / mode

Colaiste Cois Siuire

Boiler System Upgrade Emergency Works – BMS Points List



Point No.	Ref.	System / Zone	Plant / Device	Point Description	BMS Function	I/O Type	Signal / Interface	Alarm / Action
27	TS-01	Boiler Plant	External Frost Stat	Frost Condition	Initiate frost protection strategy and generate frost condition indication.	DI	24 V / volt-free contact	Control / alarm condition
28	TS-02	Boiler Plant	External Temperature Sensor	Outside Air Temperature	Outside air temperature monitoring and weather compensation input.	AI	Temperature sensor	Monitor
29	TS-04	Boiler Primary	Boiler Header Flow	Boiler Header Flow Temperature	Monitor boiler header flow temperature for cascade control and alarm limits.	AI	Temperature sensor	Monitor / alarm limits
30	TS-05	Boiler Primary	Boiler Header Return	Boiler Header Return Temperature	Monitor boiler header return temperature.	AI	Temperature sensor	Monitor / alarm limits
31	TS-06	Secondary Heating	Post HEX.01 Flow	Post Heat Exchanger Flow Temperature	Monitor secondary heating flow temperature downstream of HEX.01.	AI	Temperature sensor	Monitor / alarm limits
32	TS-07	Secondary Heating	Post HEX.01 Return	Post Heat Exchanger Return Temperature	Monitor secondary heating return temperature upstream of HEX.01.	AI	Temperature sensor	Monitor / alarm limits
33	TS-08	School Heating Circuit	Circuit Return	School Heating Circuit Return Temperature	Monitor School heating circuit return temperature.	AI	Temperature sensor	Monitor / alarm limits
34	TS-09	Sports Hall Heating Circuit	Circuit Return	Sports Hall Heating Circuit Return Temperature	Monitor Sports Hall heating circuit return temperature.	AI	Temperature sensor	Monitor / alarm limits
35	TS-10	Sports Hall Heating	Sports Hall Space Sensor	Sports Hall Space Temperature	Primary Sports Hall space temperature input for unit heater heating demand.	AI	Temperature sensor	Control / monitor

Colaiste Cois Siuire

Boiler System Upgrade Emergency Works – BMS Points List



Point No.	Ref.	System / Zone	Plant / Device	Point Description	BMS Function	I/O Type	Signal / Interface	Alarm / Action
36	TS-11	Sports Hall Heating	High-Level Space Sensor	Sports Hall High-Level Temperature	Monitor high-level Sports Hall temperature and initiate destratification sequence as required.	AI	Temperature sensor	Control / monitor
37	FA	Boiler Plant	Fire Alarm Interface	Fire Alarm Signal	Receive fire alarm signal and shut down / interlock heating plant in accordance with the agreed cause-and-effect.	DI	Fire-rated cable / volt-free contact	Safety interlock