

BMS Point Schedule

โครงการ : BLOCK H

SEPTEMBER, 2018

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สารบัญ

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Building Management System Point List

Project : BLOCK H

Location : Bangkok

AHU, FCU , FAN

SITE83 CO.,LTD.

Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation					Remark
							DI	AI		DO	AO	
								BI	UI			
B2	DDC-LB2/1	AC-LB2/01,02 (On/Off)	2	-Start/Stop		DO				2		
				-On/Off Status		DI	2					
				-Overload Trip Alarm		DI	2					
				-Valve Control	2 Way valve (On/Off)	DO				2		
				-Room Temperature Sensor	Temp Sensor	BI		2				
	DDC-LB2/2	Fresh Air Fan FF-B2/01-02	2	-Start/Stop		DO				2		
				-On/Off Status		DI	2					
				-Overload Trip Alarm		DI	2					
	DDC-LB2/3	Exhaust Fan EF-B2/01-02	2	-Start/Stop		DO				2		
				-On/Off Status		DI	2					
				-Overload Trip Alarm		DI	2					
B1	DDC-LB1/1	AC-LB1/01,02 (On/Off)	2	-Start/Stop		DO				2		
				-On/Off Status		DI	2					
				-Overload Trip Alarm		DI	2					
				-Valve Control	2 Way valve (On/Off)	DO				2		
				-Room Temperature Sensor	Temp Sensor	BI		2				
	DDC-PB1/1	Fresh Air Fan FF-B1/01-02	2	-Start/Stop		DO				2		
				-On/Off Status		DI	2					
				-Overload Trip Alarm		DI	2					
	DDC-PB1/2	Exhaust Fan EF-B1/01-02	2	-Start/Stop		DO				2		
				-On/Off Status		DI	2					
				-Overload Trip Alarm		DI	2					

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Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation					Remark
							DI	AI		DO	AO	
								BI	UI			
	DDC-B1/1	Exhaust Fan	1	-Start/Stop		DO				3		
		EF-B1/03		-On/Off Status		DI	3					
				-Overload Trip Alarm		DI	3					
	DDC-B1/2	Jet Fan	1	-Start/Stop		DO				4		
		FFC-B1/01-04		-On/Off Status		DI	4					
				-Overload Trip Alarm		DI	4					
	DDC-TB1/1	Exhaust Fan	1	-Start/Stop		DO				1		
		EF-TB1/01		-On/Off Status		DI	1					
				-Overload Trip Alarm		DI	1					



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							DI	AI		DO	AO			
								BI	UI					
FL1	DDC-L1/1	AC-L1/01,02 (On/Off)	2	-Start/Stop		DO				2				
				-On/Off Status		DI	2							
				-Overload Trip Alarm		DI	2							
				-Valve Control	2 Way valve (On/Off)	DO				2				
				-Room Temperature Sensor	Temp Sensor	BI		2						
	DDC-F1/1 to F1/15	AC-C1/01 to C1/15	15	-Start/Stop		SNVT						Interface by LON		
-On/Off Status					SNVT									
-Overload Trip Alarm					SNVT									
-Phase Voltage					SNVT									
-Phase Ampere					SNVT									
							-Modulating Control Valve	2-Way Modulating Valve	AO				15	
							-Feedback Status Control Valve	2-Way Modulating Valve	UI			15		
							-Motorized Damper	Damper	AO				15	
							-Feedback Status of Damper	Damper	UI			15		
							-Supply Air Temperature Sensor	Temp Sensor	BI		15			
							-Return Air Temperature Sensor	Temp Sensor	BI		15			
							-CHWS Pipe Temp	Pipe Temp Sensor	BI		15			
							-Dirty Filter Alarm	DPS	DI	15				
							-Space Temperature Sensor	Temp Sensor	BI		15			
	DDC-W1/1	AC-W1/01-02 (On/Off)	1	-Start/Stop		DO				2				
-On/Off Status					DI	2								
-Overload Trip Alarm					DI	2								
-Valve Control				2 Way valve (On/Off)	DO				2					
-Room Temperature Sensor				Temp Sensor	BI		2							

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Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation					Remark
							DI	AI		DO	AO	
								BI	UI			
	DDC-T1/1	AC-T1/01	1	-Start/Stop		DO				1		
		(On/Off)		-On/Off Status		DI	1					
				-Overload Trip Alarm		DI	1					
				-Valve Control	2 Way valve (On/Off)	DO				1		
				-Room Temperature Sensor	Temp Sensor	BI		1				
FL2	DDC-L2/1	AC-L2/01,02	2	-Start/Stop		DO				2		
		(On/Off)		-On/Off Status		DI	2					
				-Overload Trip Alarm		DI	2					
				-Valve Control	2 Way valve (On/Off)	DO				2		
				-Room Temperature Sensor	Temp Sensor	BI		2				
	DDC-F2/1	AC-C2/01 to C2/14	15	-Start/Stop	SNVT							Interface by LON
	to F2/14			-On/Off Status	SNVT							
				-Overload Trip Alarm	SNVT							
				-Phase Voltage	SNVT							
				-Phase Ampere	SNVT							
				-Modulating Control Valve	2-Way Modulating Valve	AO					15	
				-Feedback Status Control Valve	2-Way Modulating Valve	UI			15			
				-Motorized Damper	Damper	AO					15	
				-Feedback Status of Damper	Damper	UI			15			
				-Supply Air Temperature Sensor	Temp Sensor	BI		15				
				-Return Air Temperature Sensor	Temp Sensor	BI		15				
				-CHWS Pipe Temp	Pipe Temp Sensor	BI		15				
				-Dirty Filter Alarm	DPS	DI	15					
				-Space Temperature Sensor	Temp Sensor	BI		15				

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Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation					Remark
							DI	AI		DO	AO	
								BI	UI			
	DDC-T2/1	AC-T2/01	1	-Start/Stop	SNVT							Interface by LON
		(On/Off)		-On/Off Status	SNVT							
				-Overload Trip Alarm	SNVT							
				-Phase Voltage	SNVT							
				-Phase Ampere	SNVT							
				-Modulating Control Valve	2-Way Modulating Valve	AO					1	
				-Feedback Status Control Valve	2-Way Modulating Valve	UI			1			
				-Motorized Damper	Damper	AO					1	
				-Feedback Status of Damper	Damper	UI			1			
				-Supply Air Temperature Sensor	Temp Sensor	BI		1				
				-Return Air Temperature Sensor	Temp Sensor	BI		1				
				-CHWS Pipe Temp	Pipe Temp Sensor	BI		1				
				-Dirty Filter Alarm	DPS	DI	1					
				-Room Temperature Sensor	Temp Sensor	BI		1				

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Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation					Remark		
							DI	AI		DO	AO			
								BI	UI					
FL3	DDC-L3/1	AC-L3/01,02 (On/Off)	2	-Start/Stop		DO				2				
				-On/Off Status		DI	2							
				-Overload Trip Alarm		DI	2							
				-Valve Control	2 Way valve (On/Off)	DO				2				
				-Room Temperature Sensor	Temp Sensor	BI		2						
	DDC-F3/1 to F3/14	AC-C3/01 to C3/14	15	-Start/Stop		SNVT						Interface by LON		
-On/Off Status					SNVT									
-Overload Trip Alarm					SNVT									
-Phase Voltage					SNVT									
-Phase Ampere					SNVT									
							-Modulating Control Valve	2-Way Modulating Valve	AO				15	
							-Feedback Status Control Valve	2-Way Modulating Valve	UI			15		
							-Motorized Damper	Damper	AO				15	
							-Feedback Status of Damper	Damper	UI			15		
							-Supply Air Temperature Sensor	Temp Sensor	BI		15			
							-Return Air Temperature Sensor	Temp Sensor	BI		15			
							-CHWS Pipe Temp	Pipe Temp Sensor	BI		15			
							-Dirty Filter Alarm	DPS	DI	15				
							-Space Temperature Sensor	Temp Sensor	BI		15			

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Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation					Remark
							DI	AI		DO	AO	
								BI	UI			
	DDC-T3/1	AC-T3/01	1	-Start/Stop	SNVT							Interface by LON
		(On/Off)		-On/Off Status	SNVT							
				-Overload Trip Alarm	SNVT							
				-Phase Voltage	SNVT							
				-Phase Ampere	SNVT							
				-Modulating Control Valve	2-Way Modulating Valve	AO					1	
				-Feedback Status Control Valve	2-Way Modulating Valve	UI			1			
				-Motorized Damper	Damper	AO					1	
				-Feedback Status of Damper	Damper	UI			1			
				-Supply Air Temperature Sensor	Temp Sensor	BI		1				
				-Return Air Temperature Sensor	Temp Sensor	BI		1				
				-CHWS Pipe Temp	Pipe Temp Sensor	BI		1				
				-Dirty Filter Alarm	DPS	DI	1					
				-Room Temperature Sensor	Temp Sensor	BI		1				
FL4	DDC-L4/1	AC-L4/01 to L4/08	1	-Start/Stop		DO				8		
		(On/Off)		-On/Off Status		DI	8					
				-Overload Trip Alarm		DI	8					
				-Valve Control	2 Way valve (On/Off)	DO				8		
				-Temperature Sensor	Temp Sensor	BI		8				
	DDC-C4/3	Jet FAN	12	-Start/Stop		DO				12		
		FFC-F4/01 to 12		-On/Off Status		DI	12					
				-Overload Trip Alarm		DI	12					

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Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation					Remark
							DI	AI		DO	AO	
								BI	UI			
FL5	DDC-L5/1	AC-L5/01 to L5/07 (On/Off)	7	-Start/Stop		DO				7		
				-On/Off Status		DI	7					
				-Overload Trip Alarm		DI	7					
				-Valve Control	2 Way valve (On/Off)	DO					7	
				-Temperature Sensor	Temp Sensor	BI		7				
	DDC-C5/1	Jet FAN	12	-Start/Stop		DO				12		
				-On/Off Status		DI	12					
				-Overload Trip Alarm		DI	12					
FL6	DDC-L6/1	AC-L5/01 to L5/07 (On/Off)	7	-Start/Stop		DO				7		
				-On/Off Status		DI	7					
				-Overload Trip Alarm		DI	7					
				-Valve Control	2 Way valve (On/Off)	DO					7	
				-Temperature Sensor	Temp Sensor	BI		7				
	DDC-C6/1	Jet FAN	12	-Start/Stop		DO				12		
				-On/Off Status		DI	12					

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Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation					Remark
							DI	AI		DO	AO	
								BI	UI			
	DDC-OAU6/1	AC-OAU6/01-02	2	-Start/Stop	SNVT							Interface by LON
				-On/Off Status	SNVT							
				-Overload Trip Alarm	SNVT							
				-Phase Voltage	SNVT							
				-Phase Ampere	SNVT							
				-Fan speed control		AO					2	Direct To VSD
				-AIR FLOW System Pressure		AI		1	1			Direct To VSD
				-Modulating Control Valve	2-Way Modulating Valve	AO					2	
				-Feedback Status Control Valve	2-Way Modulating Valve	UI			2			
				-Motorized Damper	Damper	AO					2	
				-Feedback Status of Damper	Damper	UI			2			
				-Supply Air Temperature Sensor	Temp Sensor	BI		2				
				-Humidity Sensor	Humidity Sensor	BI			2			
				-Outdoor Temp/Humidity Sensor	Outdoor Temp/Hu Sensor	UI		1	1			
				-CHWS Pipe Temp	Pipe Temp Sensor	BI		2				
				-Dirty Filter Alarm	DPS	DI	2					
				-Room Temperature Sensor	Temp Sensor	BI		2				
				-Outdoor Temp/Humidity Sensor	Outdoor Temp/Hu Sensor	UI		1	1			
				-Overload Trip Alarm		DI	12					
	DDC-C6/2	Fresh Air Fan	2	-Start/Stop		DO					2	
		KFF-01,02		-On/Off Status		DI	2					
				-Overload Trip Alarm		DI	2					

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							DI	AI		DO	AO	
								BI	UI			
FL7	DDC-L7/1	AC-L7/01 to L7/07 (On/Off)	7	-Start/Stop		DO				7		
				-On/Off Status		DI	7					
				-Overload Trip Alarm		DI	7					
				-Valve Control	2 Way valve (On/Off)	DO				7		
				-Temperature Sensor	Temp Sensor	BI		7				
	DDC-C7/1 to C7/2	AC-F7/01 to F7/02 (EE ROOM)	2	-Start/Stop		SNVT						Interface by LON
				-On/Off Status		SNVT						
				-Overload Trip Alarm		SNVT						
				-Phase Voltage		SNVT						
				-Phase Ampere		SNVT						
				-Modulating Control Valve	2-Way Modulating Valve	AO					2	
				-Feedback Status Control Valve	2-Way Modulating Valve	UI			2			
				-Motorized Damper	Damper	AO					2	
				-Feedback Status of Damper	Damper	UI			2			
				-Supply Air Temperature Sensor	Temp Sensor	BI		2				
				-Return Air Temperature Sensor	Temp Sensor	BI		2				
				-CHWS Pipe Temp	Pipe Temp Sensor	BI		2				
				-Dirty Filter Alarm	DPS	DI	2					
-Space Temperature Sensor (EE ROOM)	Temp Sensor	BI		2								
	DDC-C7/3	Exhaust Fan EF-C7/01 to 03	3	-Start/Stop		DO				3		
				-On/Off Status		DI	3					
				-Overload Trip Alarm		DI	3					

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Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation				Remark	
							DI	AI		DO		AO
								BI	UI			
	DDC-C7/4	Jet FAN	12	-Start/Stop		DO				12		
		FFC-F4/01 to 12		-On/Off Status		DI	12					
				-Overload Trip Alarm		DI	12					
	DDC-C7/5	Exhaust Fan	2	-Start/Stop		DO				2		
		KEF-01,02		-On/Off Status		DI	2					
				-Overload Trip Alarm		DI	2					
FL8	DDC-L8/1	AC-L8/01,02	2	-Start/Stop		DO				2		
		(On/Off)		-On/Off Status		DI	2					
				-Overload Trip Alarm		DI	2					
				-Valve Control	2 Way valve (On/Off)	DO				2		
				-Room Temperature Sensor	Temp Sensor	BI		2				

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Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation					Remark
							DI	AI		DO	AO	
								BI	UI			
	DDC-F8/1	AC-F2/01 to F2/19	23	-Start/Stop	SNVT							Interface by LON
	to F8/19	(AC-F8/01A.B)		-On/Off Status	SNVT							
		(AC-F8/09A.B.)		-Overload Trip Alarm	SNVT							
		(AC-F8/010A.B)		-Phase Voltage	SNVT							
		(AC-F8/18 A.B.)		-Phase Ampere	SNVT							
				-Energy Meter	SNVT							
				-Modulating Control Valve	2-Way Modulating Valve	AO					23	
				-Feedback Status Control Valve	2-Way Modulating Valve	UI			23			
				-Motorized Damper	Damper	AO					23	
				-Feedback Status of Damper	Damper	UI			23			
				-Supply Air Temperature Sensor	Temp Sensor	BI		23				
				-Return Air Temperature Sensor	Temp Sensor	BI		23				
				-CHWS Pipe Temp	Pipe Temp Sensor	BI		23				
				-Dirty Filter Alarm	DPS	DI	23					
				-Room Temperature Sensor	Temp Sensor	BI		23				

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							DI	AI		DO	AO	
								BI	UI			
	DDC-C8/1	AC-C8/01 to 02	2	-Start/Stop	SNVT						Interface by LON	
				-On/Off Status	SNVT							
				-Overload Trip Alarm	SNVT							
				-Phase Voltage	SNVT							
				-Phase Ampere	SNVT							
				-Modulating Control Valve	2-Way Modulating Valve	AO				2		
				-Feedback Status Control Valve	2-Way Modulating Valve	UI		2				
				-Motorized Damper	Damper	AO				2		
				-Feedback Status of Damper	Damper	UI		2				
				-Supply Air Temperature Sensor	Temp Sensor	BI		2				
				-Return Air Temperature Sensor	Temp Sensor	BI		2				
				-CHWS Pipe Temp	Pipe Temp Sensor	BI		2				
				-Dirty Filter Alarm	DPS	DI	2					
				-Space Temperature Sensor	Temp Sensor	BI		2				

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Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation					Remark
							DI	AI		DO	AO	
								BI	UI			
	DDC-T8/1	AC-T8/01	1	-Start/Stop	SNVT						Interface by LON	
				-On/Off Status	SNVT							
				-Overload Trip Alarm	SNVT							
				-Phase Voltage	SNVT							
				-Phase Ampere	SNVT							
				-Modulating Control Valve	2-Way Modulating Valve	AO				1		
				-Feedback Status Control Valve	2-Way Modulating Valve	UI		1				
				-Motorized Damper	Damper	AO				1		
				-Feedback Status of Damper	Damper	UI		1				
				-Supply Air Temperature Sensor	Temp Sensor	BI		1				
				-Return Air Temperature Sensor	Temp Sensor	BI		1				
				-CHWS Pipe Temp	Pipe Temp Sensor	BI		1				
				-Dirty Filter Alarm	DPS	DI	1					
				-Room Temperature Sensor	Temp Sensor	BI		1				
	DDC-T8/2	Toilet Exhaust	2	-Start/Stop		DO				2		
		EF-T8/01-02		-On/Off Status		DI	2					
				-Overload Trip Alarm		DI	2					
	DDC-S8/1	Smoke Exhaust	4	-Start/Stop		DO				4		
		SEF-F7/01-04		-On/Off Status		DI	4					
				-Overload Trip Alarm		DI	4					
FL9	DDC-L9/1	AC-L9/01,02	2	-Start/Stop		DO				2		
		(On/Off)		-On/Off Status		DI	2					
				-Overload Trip Alarm		DI	2					
				-Valve Control	2 Way valve (On/Off)	DO				2		
				-Room Temperature Sensor	Temp Sensor	BI		2				

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Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation					Remark
							DI	AI		DO	AO	
								BI	UI			
	DDC-C9/1	AC-C9/01 to 02	2	-Start/Stop	SNVT							Interface by LON
	to C9/2			-On/Off Status	SNVT							
				-Overload Trip Alarm	SNVT							
				-Phase Voltage	SNVT							
				-Phase Ampere	SNVT							
				-Modulating Control Valve	2-Way Modulating Valve	AO					2	
				-Feedback Status Control Valve	2-Way Modulating Valve	UI			2			
				-Motorized Damper	Damper	AO					2	
				-Feedback Status of Damper	Damper	UI			2			
				-Supply Air Temperature Sensor	Temp Sensor	BI		2				
				-Return Air Temperature Sensor	Temp Sensor	BI		2				
				-CHWS Pipe Temp	Pipe Temp Sensor	BI		2				
				-Dirty Filter Alarm	DPS	DI	2					
				-Space Temperature Sensor	Temp Sensor	BI		2				

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Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation					Remark
							DI	AI		DO	AO	
								BI	UI			
	DDC-T9/1	AC-T9/01 to 02	2	-Start/Stop	SNVT							Interface by LON
				-On/Off Status	SNVT							
				-Overload Trip Alarm	SNVT							
				-Phase Voltage	SNVT							
				-Phase Ampere	SNVT							
				-Modulating Control Valve	2-Way Modulating Valve	AO					2	
				-Feedback Status Control Valve	2-Way Modulating Valve	UI			2			
				-Motorized Damper	Damper	AO					2	
				-Feedback Status of Damper	Damper	UI			2			
				-Supply Air Temperature Sensor	Temp Sensor	BI		2				
				-Return Air Temperature Sensor	Temp Sensor	BI		2				
				-CHWS Pipe Temp	Pipe Temp Sensor	BI		2				
				-Dirty Filter Alarm	DPS	DI	2					
				-Room Temperature Sensor	Temp Sensor	BI		2				
	DDC-K9/1	Exhaust Fan	1	-Start/Stop		DO				1		
		KEF-F9/01		-On/Off Status		DI	1					
				-Overload Trip Alarm		DI	1					
	DDC-K9/2	Fresh Air Fan	1	-Start/Stop		DO				1		
		KFF-F9/01		-On/Off Status		DI	1					
				-Overload Trip Alarm		DI	1					
	DDC-T9/2	Toilet Exhaust	2	-Start/Stop		DO				2		
		EF-T9/01-02		-On/Off Status		DI	2					
				-Overload Trip Alarm		DI	2					

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Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation					Remark
							DI	AI		DO	AO	
								BI	UI			
FL9A	DDC-L9A/1	AC-L9A/01,02	2	-Start/Stop		DO				2		
		(On/Off)		-On/Off Status		DI	2					
				-Overload Trip Alarm		DI	2					
				-Valve Control	2 Way valve (On/Off)	DO				2		
				-Room Temperature Sensor	Temp Sensor	BI		2				
	DDC-C9A/1	AC-C9A/01 to 20	20	-Start/Stop	SNVT							Interface by LON
	to C9A/20			-On/Off Status	SNVT							
				-Overload Trip Alarm	SNVT							
				-Phase Voltage	SNVT							
				-Phase Ampere	SNVT							
				-Modulating Control Valve	2-Way Modulating Valve	AO					20	
				-Feedback Status Control Valve	2-Way Modulating Valve	UI			20			
				-Motorized Damper	Damper	AO					20	
				-Feedback Status of Damper	Damper	UI			20			
				-Supply Air Temperature Sensor	Temp Sensor	BI		20				
				-Return Air Temperature Sensor	Temp Sensor	BI		20				
				-CHWS Pipe Temp	Pipe Temp Sensor	BI		20				
				-Dirty Filter Alarm	DPS	DI	20					
				-Space Temperature Sensor	Temp Sensor	BI		20				

Building Management System Point List

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AHU, FCU , FAN

SITE83 CO.,LTD.

Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation					Remark
							DI	AI		DO	AO	
								BI	UI			
	DDC-C9A/2	AC-C9A/21 to 22	2	-Start/Stop	SNVT						Interface by LON	
				-On/Off Status	SNVT							
				-Overload Trip Alarm	SNVT							
				-Phase Voltage	SNVT							
				-Phase Ampere	SNVT							
				-Modulating Control Valve	2-Way Modulating Valve	AO				2		
				-Feedback Status Control Valve	2-Way Modulating Valve	UI		2				
				-Motorized Damper	Damper	AO				2		
				-Feedback Status of Damper	Damper	UI		2				
				-Supply Air Temperature Sensor	Temp Sensor	BI		2				
				-Return Air Temperature Sensor	Temp Sensor	BI		2				
				-CHWS Pipe Temp	Pipe Temp Sensor	BI		2				
				-Dirty Filter Alarm	DPS	DI	2					
				-Space Temperature Sensor	Temp Sensor	BI		2				

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AHU, FCU , FAN

SITE83 CO.,LTD.

Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation					Remark
							DI	AI		DO	AO	
								BI	UI			
	DDC-F9A/1	AC-F9A/01 to 02	2	-Start/Stop	SNVT							Interface by LON
				-On/Off Status	SNVT							
				-Overload Trip Alarm	SNVT							
				-Phase Voltage	SNVT							
				-Phase Ampere	SNVT							
				-Modulating Control Valve	2-Way Modulating Valve	AO					2	
				-Feedback Status Control Valve	2-Way Modulating Valve	UI			2			
				-Motorized Damper	Damper	AO					2	
				-Feedback Status of Damper	Damper	UI			2			
				-Supply Air Temperature Sensor	Temp Sensor	BI		2				
				-Return Air Temperature Sensor	Temp Sensor	BI		2				
				-CHWS Pipe Temp	Pipe Temp Sensor	BI		2				
				-Dirty Filter Alarm	DPS	DI	2					
				-Room Temperature Sensor	Temp Sensor	BI		2				
FL10	DDC-L10/1	AC-L10/01,02	2	-Start/Stop		DO				2		
		(On/Off)		-On/Off Status		DI	2					
				-Overload Trip Alarm		DI	2					
				-Valve Control	2 Way valve (On/Off)	DO				2		
				-Room Temperature Sensor	Temp Sensor	BI		2				

Building Management System Point List

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AHU, FCU , FAN

SITE83 CO.,LTD.

Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation					Remark
							DI	AI		DO	AO	
								BI	UI			
	DDC-C10/1	AC-C10/01 to 04	4	-Start/Stop	SNVT						Interface by LON	
				-On/Off Status	SNVT							
				-Overload Trip Alarm	SNVT							
				-Phase Voltage	SNVT							
				-Phase Ampere	SNVT							
				-Modulating Control Valve	2-Way Modulating Valve	AO				4		
				-Feedback Status Control Valve	2-Way Modulating Valve	UI		4				
				-Motorized Damper	Damper	AO				4		
				-Feedback Status of Damper	Damper	UI		4				
				-Supply Air Temperature Sensor	Temp Sensor	BI		4				
				-Return Air Temperature Sensor	Temp Sensor	BI		4				
				-CHWS Pipe Temp	Pipe Temp Sensor	BI		4				
				-Dirty Filter Alarm	DPS	DI	4					
				-Space Temperature Sensor	Temp Sensor	BI		4				

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AHU, FCU , FAN

SITE83 CO.,LTD.

Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation					Remark
							DI	AI		DO	AO	
								BI	UI			
	DDC-F10/1A	AC-F10/01A to 01B	2	-Start/Stop	SNVT							Interface by LON
	to F10/01B			-On/Off Status	SNVT							
				-Overload Trip Alarm	SNVT							
				-Phase Voltage	SNVT							
				-Phase Ampere	SNVT							
				-Energy Meter	SNVT							
				-Modulating Control Valve	2-Way Modulating Valve	AO					2	
				-Feedback Status Control Valve	2-Way Modulating Valve	UI			2			
				-Motorized Damper	Damper	AO					2	
				-Feedback Status of Damper	Damper	UI			2			
				-Supply Air Temperature Sensor	Temp Sensor	BI		2				
				-Return Air Temperature Sensor	Temp Sensor	BI		2				
				-CHWS Pipe Temp	Pipe Temp Sensor	BI		2				
				-Dirty Filter Alarm	DPS	DI	2					
				-Room Temperature Sensor	Temp Sensor	BI		2				

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SITE83 CO.,LTD.

Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation					Remark
							DI	AI		DO	AO	
								BI	UI			
	DDC-T10/1	AC-T10/01	1	-Start/Stop	SNVT						Interface by LON	
				-On/Off Status	SNVT							
				-Overload Trip Alarm	SNVT							
				-Phase Voltage	SNVT							
				-Phase Ampere	SNVT							
				-Modulating Control Valve	2-Way Modulating Valve	AO				1		
				-Feedback Status Control Valve	2-Way Modulating Valve	UI		1				
				-Motorized Damper	Damper	AO				1		
				-Feedback Status of Damper	Damper	UI		1				
				-Supply Air Temperature Sensor	Temp Sensor	BI		1				
				-Return Air Temperature Sensor	Temp Sensor	BI		1				
				-CHWS Pipe Temp	Pipe Temp Sensor	BI		1				
				-Dirty Filter Alarm	DPS	DI	1					
				-Room Temperature Sensor	Temp Sensor	BI		1				
	DDC-T10/2	Toilet Exhaust	2	-Start/Stop		DO				2		
		EF-T10/01-02		-On/Off Status		DI	2					
				-Overload Trip Alarm		DI	2					

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SITE83 CO.,LTD.

Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation					Remark
							DI	AI		DO	AO	
								BI	UI			
FL11	DDC-L11/1	AC-L11/01,02 (On/Off)	2	-Start/Stop		DO				2		
				-On/Off Status		DI	2					
				-Overload Trip Alarm		DI	2					
				-Valve Control	2 Way valve (On/Off)	DO				2		
				-Room Temperature Sensor	Temp Sensor	BI		2				
	DDC-F11/1 to F11/12	AC-F11/01 to 12	12	-Start/Stop	SNVT							Interface by LON
				-On/Off Status	SNVT							
				-Energy Meter	SNVT							
				-Overload Trip Alarm	SNVT							
				-Phase Voltage	SNVT							
				-Phase Ampere	SNVT							
				-Modulating Control Valve	2-Way Modulating Valve	AO					12	
				-Feedback Status Control Valve	2-Way Modulating Valve	UI			12			
				-Motorized Damper	Damper	AO					12	
				-Feedback Status of Damper	Damper	UI			12			
				-Supply Air Temperature Sensor	Temp Sensor	BI		12				
				-Return Air Temperature Sensor	Temp Sensor	BI		12				
				-CHWS Pipe Temp	Pipe Temp Sensor	BI		12				
				-Dirty Filter Alarm	DPS	DI	12					
				-Room Temperature Sensor	Temp Sensor	BI		12				

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SITE83 CO.,LTD.

Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation					Remark
							DI	AI		DO	AO	
								BI	UI			
	DDC-T11/1	AC-T11/01	1	-Start/Stop	SNVT						Interface by LON	
				-On/Off Status	SNVT							
				-Overload Trip Alarm	SNVT							
				-Phase Voltage	SNVT							
				-Phase Ampere	SNVT							
				-Modulating Control Valve	2-Way Modulating Valve	AO				1		
				-Feedback Status Control Valve	2-Way Modulating Valve	UI		1				
				-Motorized Damper	Damper	AO				1		
				-Feedback Status of Damper	Damper	UI		1				
				-Supply Air Temperature Sensor	Temp Sensor	BI		1				
				-Return Air Temperature Sensor	Temp Sensor	BI		1				
				-CHWS Pipe Temp	Pipe Temp Sensor	BI		1				
				-Dirty Filter Alarm	DPS	DI	1					
				-Room Temperature Sensor	Temp Sensor	BI		1				
	DDC-T11/2	Toilet Exhaust	2	-Start/Stop		DO				2		
		EF-T11/01-02		-On/Off Status		DI	2					
				-Overload Trip Alarm		DI	2					

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SITE83 CO.,LTD.

Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation					Remark
							DI	AI		DO	AO	
								BI	UI			
FL12	DDC-L12/1	AC-L12/01,02	2	-Start/Stop		DO				2		
		(On/Off)		-On/Off Status		DI	2					
				-Overload Trip Alarm		DI	2					
				-Valve Control	2 Way valve (On/Off)	DO				2		
				-Room Temperature Sensor	Temp Sensor	BI		2				
	DDC-F12/1	AC-F12/01 to 12	12	-Start/Stop	SNVT							Interface by LON
	to F12/12			-On/Off Status	SNVT							
				-Energy Meter	SNVT							
				-Overload Trip Alarm	SNVT							
				-Phase Voltage	SNVT							
				-Phase Ampere	SNVT							
				-Modulating Control Valve	2-Way Modulating Valve	AO					12	
				-Feedback Status Control Valve	2-Way Modulating Valve	UI			12			
				-Motorized Damper	Damper	AO					12	
				-Feedback Status of Damper	Damper	UI			12			
				-Supply Air Temperature Sensor	Temp Sensor	BI		12				
				-Return Air Temperature Sensor	Temp Sensor	BI		12				
				-CHWS Pipe Temp	Pipe Temp Sensor	BI		12				
				-Dirty Filter Alarm	DPS	DI	12					
				-Room Temperature Sensor	Temp Sensor	BI		12				

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SITE83 CO.,LTD.

Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation					Remark
							DI	AI		DO	AO	
								BI	UI			
	DDC-T12/1	AC-T12/01	1	-Start/Stop	SNVT						Interface by LON	
				-On/Off Status	SNVT							
				-Overload Trip Alarm	SNVT							
				-Phase Voltage	SNVT							
				-Phase Ampere	SNVT							
				-Modulating Control Valve	2-Way Modulating Valve	AO				1		
				-Feedback Status Control Valve	2-Way Modulating Valve	UI		1				
				-Motorized Damper	Damper	AO				1		
				-Feedback Status of Damper	Damper	UI		1				
				-Supply Air Temperature Sensor	Temp Sensor	BI		1				
				-Return Air Temperature Sensor	Temp Sensor	BI		1				
				-CHWS Pipe Temp	Pipe Temp Sensor	BI		1				
				-Dirty Filter Alarm	DPS	DI	1					
				-Room Temperature Sensor	Temp Sensor	BI		1				
	DDC-T12/2	Toilet Exhaust	2	-Start/Stop		DO				2		
		EF-T12/01-02		-On/Off Status		DI	2					
				-Overload Trip Alarm		DI	2					
FL13	DDC-L13/1	AC-L13/01,02	2	-Start/Stop		DO				2		
		(On/Off)		-On/Off Status		DI	2					
				-Overload Trip Alarm		DI	2					
				-Valve Control	2 Way valve (On/Off)	DO				2		
				-Room Temperature Sensor	Temp Sensor	BI		2				

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AHU, FCU , FAN

SITE83 CO.,LTD.

Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation					Remark
							DI	AI		DO	AO	
								BI	UI			
	DDC-F13/1	AC-F13/01 to 12	12	-Start/Stop	SNVT							Interface by LON
	to F13/12			-On/Off Status	SNVT							
				-Energy Meter	SNVT							
				-Overload Trip Alarm	SNVT							
				-Phase Voltage	SNVT							
				-Phase Ampere	SNVT							
				-Modulating Control Valve	2-Way Modulating Valve	AO					12	
				-Feedback Status Control Valve	2-Way Modulating Valve	UI			12			
				-Motorized Damper	Damper	AO					12	
				-Feedback Status of Damper	Damper	UI			12			
				-Supply Air Temperature Sensor	Temp Sensor	BI		12				
				-Return Air Temperature Sensor	Temp Sensor	BI		12				
				-CHWS Pipe Temp	Pipe Temp Sensor	BI		12				
				-Dirty Filter Alarm	DPS	DI	12					
				-Room Temperature Sensor	Temp Sensor	BI		12				

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SITE83 CO.,LTD.

Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation					Remark
							DI	AI		DO	AO	
								BI	UI			
	DDC-T13/1	AC-T13/01	1	-Start/Stop	SNVT							Interface by LON
				-On/Off Status	SNVT							
				-Overload Trip Alarm	SNVT							
				-Phase Voltage	SNVT							
				-Phase Ampere	SNVT							
				-Modulating Control Valve	2-Way Modulating Valve	AO					1	
				-Feedback Status Control Valve	2-Way Modulating Valve	UI			1			
				-Motorized Damper	Damper	AO					1	
				-Feedback Status of Damper	Damper	UI			1			
				-Supply Air Temperature Sensor	Temp Sensor	BI		1				
				-Return Air Temperature Sensor	Temp Sensor	BI		1				
				-CHWS Pipe Temp	Pipe Temp Sensor	BI		1				
				-Dirty Filter Alarm	DPS	DI	1					
				-Room Temperature Sensor	Temp Sensor	BI		1				
	DDC-T13/2	Toilet Exhaust	2	-Start/Stop		DO				2		
		EF-T13/01-02		-On/Off Status		DI	2					
				-Overload Trip Alarm		DI	2					
FL14	DDC-L14/1	AC-L14/01,02	2	-Start/Stop		DO				2		
		(On/Off)		-On/Off Status		DI	2					
				-Overload Trip Alarm		DI	2					
				-Valve Control	2 Way valve (On/Off)	DO				2		
				-Room Temperature Sensor	Temp Sensor	BI		2				

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AHU, FCU , FAN

SITE83 CO.,LTD.

Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation					Remark
							DI	AI		DO	AO	
								BI	UI			
	DDC-F14/1	AC-F14/01 to 12	12	-Start/Stop	SNVT							Interface by LON
	to F14/12			-On/Off Status	SNVT							
				-Energy Meter	SNVT							
				-Overload Trip Alarm	SNVT							
				-Phase Voltage	SNVT							
				-Phase Ampere	SNVT							
				-Modulating Control Valve	2-Way Modulating Valve	AO					12	
				-Feedback Status Control Valve	2-Way Modulating Valve	UI			12			
				-Motorized Damper	Damper	AO					12	
				-Feedback Status of Damper	Damper	UI			12			
				-Supply Air Temperature Sensor	Temp Sensor	BI		12				
				-Return Air Temperature Sensor	Temp Sensor	BI		12				
				-CHWS Pipe Temp	Pipe Temp Sensor	BI		12				
				-Dirty Filter Alarm	DPS	DI	12					
				-Room Temperature Sensor	Temp Sensor	BI		12				

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SITE83 CO.,LTD.

Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation					Remark
							DI	AI		DO	AO	
								BI	UI			
	DDC-T14/1	AC-T14/01	1	-Start/Stop	SNVT							Interface by LON
				-On/Off Status	SNVT							
				-Overload Trip Alarm	SNVT							
				-Phase Voltage	SNVT							
				-Phase Ampere	SNVT							
				-Modulating Control Valve	2-Way Modulating Valve	AO					1	
				-Feedback Status Control Valve	2-Way Modulating Valve	UI			1			
				-Motorized Damper	Damper	AO					1	
				-Feedback Status of Damper	Damper	UI			1			
				-Supply Air Temperature Sensor	Temp Sensor	BI		1				
				-Return Air Temperature Sensor	Temp Sensor	BI		1				
				-CHWS Pipe Temp	Pipe Temp Sensor	BI		1				
				-Dirty Filter Alarm	DPS	DI	1					
				-Room Temperature Sensor	Temp Sensor	BI		1				
	DDC-T14/2	Toilet Exhaust	2	-Start/Stop		DO				2		
		EF-T14/01-02		-On/Off Status		DI	2					
				-Overload Trip Alarm		DI	2					
	DDC-S14/1	Smoke Exhaust	2	-Start/Stop		DO				2		
		SEF-F14/01-04		-On/Off Status		DI	2					
				-Overload Trip Alarm		DI	2					

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SITE83 CO.,LTD.

Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation					Remark
							DI	AI		DO	AO	
								BI	UI			
FL15 to FL24	DDC-L15 to L24/1	AC-L15 to L24/01,02 (On/Off)	20	-Start/Stop		DO				20		
				-On/Off Status		DI	20					
				-Overload Trip Alarm		DI	20					
				-Valve Control	2 Way valve (On/Off)	DO				20		
				-Room Temperature Sensor	Temp Sensor	BI		20				
	DDC-F15 to F24/1 to F15 to F24/15	AC-F15 to F24/01 to 15	150	-Start/Stop	SNVT							Interface by LON
				-On/Off Status	SNVT							
				-Energy Meter	SNVT							
				-Overload Trip Alarm	SNVT							
				-Phase Voltage	SNVT							
				-Phase Ampere	SNVT							
				-Modulating Control Valve	2-Way Modulating Valve	AO					150	
				-Feedback Status Control Valve	2-Way Modulating Valve	UI			150			
				-Motorized Damper	Damper	AO					150	
				-Feedback Status of Damper	Damper	UI			150			
				-Supply Air Temperature Sensor	Temp Sensor	BI		150				
				-Return Air Temperature Sensor	Temp Sensor	BI		150				
				-CHWS Pipe Temp	Pipe Temp Sensor	BI		150				
				-Dirty Filter Alarm	DPS	DI	150					
				-Room Temperature Sensor	Temp Sensor	BI		150				
- Energy Meter (BTUH METER)		UI			150							

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Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation					Remark
							DI	AI		DO	AO	
								BI	UI			
	DDC-T15 to T24/1	AC-T15 to T24/01	10	-Start/Stop	SNVT							Interface by LON
				-On/Off Status	SNVT							
				-Overload Trip Alarm	SNVT							
				-Phase Voltage	SNVT							
				-Phase Ampere	SNVT							
				-Modulating Control Valve	2-Way Modulating Valve	AO					10	
				-Feedback Status Control Valve	2-Way Modulating Valve	UI			10			
				-Motorized Damper	Damper	AO					10	
				-Feedback Status of Damper	Damper	UI			10			
				-Supply Air Temperature Sensor	Temp Sensor	BI		10				
				-Return Air Temperature Sensor	Temp Sensor	BI		10				
				-CHWS Pipe Temp	Pipe Temp Sensor	BI		10				
				-Dirty Filter Alarm	DPS	DI	10					
				-Room Temperature Sensor	Temp Sensor	BI		10				
	DDC-T15 to T24/2	Toilet Exhaust	20	-Start/Stop		DO				20		
		EF-T15 to T24/01-02		-On/Off Status		DI	20					
				-Overload Trip Alarm		DI	20					
FL25	DDC-25/1	AC-25/01-04	4	-Start/Stop		DO				4		
		(On/Off)		-On/Off Status		DI	4					
				-Overload Trip Alarm		DI	4					
				-Valve Control	2 Way valve (On/Off)	DO				4		
				-Room Temperature Sensor	Temp Sensor	BI		4				

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Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation					Remark
							DI	AI		DO	AO	
								BI	UI			

Remark***

- DI : Digital Input
- BI : Thermister Input
- UI : Universal Input
- DO : Digital Output
- AO : Analog Output
- VSD : Variable Speed Drive
- SNVT : Standard Network Variable Type According to Echelon® Specification.



Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation				High Level interfac	Remark
							AI	AO	DI	DO		
FL6		Generator		General Alarm	VFC	DI			1			
		1,600 kVA		Status Start/Stop of Generator	VFC	DI			1			
		Standby rated		ON/OFF status of Main CB	VFC	DI			1			
				Trip Alarm of Main CB	VFC	DI			1			
				Fuel day tank low oil level alarm	VFC	DI			1			
				Fuel day tank high oil level alarm	VFC	DI			1			
				Fail to Start	VFC	DI			1			
			kWh/ Current/ Voltage Measurement	Digital meter	Modbus Interface					1		
FL7		HV SWITCHGEAR										
		HV-1		ON/OFF status of all incoming feeders	VFC	DI			2			
				ON/OFF status of all outgoing feeders	VFC	DI			2			
				Voltage Measurement	Voltage Transducer	AI	2					
				Trip alarm of all outgoing feeders	VFC	DI			2			
		HV-2		ON/OFF status of all incoming feeders	VFC	DI			2			
				ON/OFF status of all outgoing feeders	VFC	DI			2			
			Voltage Measurement	Voltage Transducer	AI	2						
			Trip alarm of all outgoing feeders	VFC	DI			2				
FL7		TRANSFORMER										
		TR-1		Transformer Protection General Alarm	VFC	DI			1			
		3Ø 24 kV/400-230 V		Transformer Trip Alarm	VFC	DI			1			
		2,500 kVA		ON/OFF Status of Forced Air Fans	VFC	DI			1			
		TR-2		Transformer Protection General Alarm	VFC	DI			1			
		3Ø 24 kV/400-230 V		Transformer Trip Alarm	VFC	DI			1			
		2,500 kVA		ON/OFF Status of Forced Air Fans	VFC	DI			1			
		TR-3		Transformer Protection General Alarm	VFC	DI			1			
		3Ø 24 kV/400-230 V		Transformer Trip Alarm	VFC	DI			1			
		2,000 kVA		ON/OFF Status of Forced Air Fans	VFC	DI			1			
		TR-4		Transformer Protection General Alarm	VFC	DI			1			
		3Ø 24 kV/400-230 V		Transformer Trip Alarm	VFC	DI			1			
		2,000 kVA		ON/OFF Status of Forced Air Fans	VFC	DI			1			
		TR-5		Transformer Protection General Alarm	VFC	DI			1			
		3Ø 24 kV/400-230 V		Transformer Trip Alarm	VFC	DI			1			
	1,600 kVA		ON/OFF Status of Forced Air Fans	VFC	DI			1				

Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation				High Level Interfac	Remark		
							AI	AO	DI	DO				
FL7	MDB1			ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1		1			
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1					
				ON/OFF Status of Branch Feeder CBs	ON/OFF Status of Branch Feeder CBs	DI			7					
				Voltage Measurement	Voltage Measurement	Modbus Interface								
				Current Measurement	Current Measurement									
				Energy Consumption (kWh) Measurement	Energy Consumption (kWh) Measurement									
				Real Power (kW) Measurement	Real Power (kW) Measurement									
				Power Factor Measurement	Power Factor Measurement									
				Apparent Power (kVA) Measurement	Apparent Power (kVA) Measurement									
	TIE (MDB1 and MDB2)	ON/OFF Status of TIE CB	VFC	DI			1							
		Trip Alarm of TIE CB	VFC	DI			1							
	MDB2				ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1	1			
					Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1				
					ON/OFF Status of Branch Feeder CBs	ON/OFF Status of Branch Feeder CBs	DI			7				
					Voltage Measurement	Voltage Measurement	Modbus Interface							
					Current Measurement	Current Measurement								
					Energy Consumption (kWh) Measurement	Energy Consumption (kWh) Measurement								
					Real Power (kW) Measurement	Real Power (kW) Measurement								
					Power Factor Measurement	Power Factor Measurement								
					Apparent Power (kVA) Measurement	Apparent Power (kVA) Measurement								
MDB3				ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1	1				
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1					
				ON/OFF Status of Branch Feeder CBs	ON/OFF Status of Branch Feeder CBs	DI			11					
				Voltage Measurement	Voltage Measurement	Modbus Interface								
				Current Measurement	Current Measurement									
				Energy Consumption (kWh) Measurement	Energy Consumption (kWh) Measurement									
				Real Power (kW) Measurement	Real Power (kW) Measurement									
				Power Factor Measurement	Power Factor Measurement									
				Apparent Power (kVA) Measurement	Apparent Power (kVA) Measurement									
TIE (MDB3 and MDB4)	ON/OFF Status of TIE CB	VFC	DI			1								
	Trip Alarm of TIE CB	VFC	DI			1								

Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation				High Level interfac	Remark
							AI	AO	DI	DO		
FLB1		B1EDB1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1		1	
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1			
				ON/OFF Status of Branch Feeder CBs	ON/OFF Status of Branch Feeder CBs	DI			10			
				Voltage Measurement	Digital Meter	Modbus Interface						
				Current Measurement								
				Energy Consumption (kWh) Measurement								
				Real Power (kW) Measurement								
				Power Factor Measurement								
Apparent Power (kVA) Measurement												
FL1		1DB1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1		1	
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1			
				ON/OFF Status of Branch Feeder CBs	ON/OFF Status of Branch Feeder CBs	DI			24			
				Voltage Measurement	Digital Meter	Modbus Interface						
				Current Measurement								
				Energy Consumption (kWh) Measurement								
				Real Power (kW) Measurement								
				Power Factor Measurement								
Apparent Power (kVA) Measurement												
		1ELP1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1			
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1			
FL2		2DB1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1		1	
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1			
				ON/OFF Status of Branch Feeder CBs	ON/OFF Status of Branch Feeder CBs	DI			24			
				Voltage Measurement	Digital Meter	Modbus Interface						
				Current Measurement								
				Energy Consumption (kWh) Measurement								
				Real Power (kW) Measurement								
				Power Factor Measurement								
Apparent Power (kVA) Measurement												
		2ELP1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1			
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1			

Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation				High Level interfac	Remark
							AI	AO	DI	DO		
FL2A		2ALP1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1			
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1			
		2AELP1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1			
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1			
FL3		3DB1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1			
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1			
				ON/OFF Status of Branch Feeder CBs	ON/OFF Status of Branch Feeder CBs	DI			24			
				Voltage Measurement	Digital Meter	Modbus Interface				1		
				Current Measurement								
				Energy Consumption (kWh) Measurement								
				Real Power (kW) Measurement								
				Power Factor Measurement								
				Apparent Power (kVA) Measurement								
		3ELP1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1			
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1			
FL3A		3ALP1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1			
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1			
		3AELP1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1			
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1			
FL4		4DB1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1			
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1			
				ON/OFF Status of Branch Feeder CBs	ON/OFF Status of Branch Feeder CBs	DI			6			
				Voltage Measurement	Digital Meter	Modbus Interface				1		
				Current Measurement								
				Energy Consumption (kWh) Measurement								
				Real Power (kW) Measurement								
				Power Factor Measurement								
				Apparent Power (kVA) Measurement								
		4ELP1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1			
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1			

Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation				High Level interfac	Remark
							AI	AO	DI	DO		
		4EPP1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1			
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1			
FL5		5DB1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1			
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1			
				ON/OFF Status of Branch Feeder CBs	ON/OFF Status of Branch Feeder CBs	DI			6			
				Voltage Measurement	Digital Meter	Modbus Interface				1		
				Current Measurement								
				Energy Consumption (kWh) Measurement								
				Real Power (kW) Measurement								
				Power Factor Measurement								
				Apparent Power (kVA) Measurement								
		5ELP1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1			
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1			
		5EPP1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1			
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1			
FL6		6DB1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1			
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1			
				ON/OFF Status of Branch Feeder CBs	ON/OFF Status of Branch Feeder CBs	DI			6			
				Voltage Measurement	Digital Meter	Modbus Interface				1		
				Current Measurement								
				Energy Consumption (kWh) Measurement								
				Real Power (kW) Measurement								
				Power Factor Measurement								
				Apparent Power (kVA) Measurement								
		6ELP1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1			
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1			
		6EPP1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1			
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1			

Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation				High Level interfac	Remark
							AI	AO	DI	DO		
		8EPP1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1			
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1			
FL9		9DB1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1			
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1			
				ON/OFF Status of Branch Feeder CBs	ON/OFF Status of Branch Feeder CBs	DI			12			
				Voltage Measurement	Digital Meter	Modbus Interface				1		
				Current Measurement								
				Energy Consumption (kWh) Measurement								
				Real Power (kW) Measurement								
				Power Factor Measurement								
				Apparent Power (kVA) Measurement								
		9ELP1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1			
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1			
		9EPP1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1			
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1			
FL9A		9ADB1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1			
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1			
				ON/OFF Status of Branch Feeder CBs	ON/OFF Status of Branch Feeder CBs	DI			8			
				Voltage Measurement	Digital Meter	Modbus Interface				1		
				Current Measurement								
				Energy Consumption (kWh) Measurement								
				Real Power (kW) Measurement								
				Power Factor Measurement								
				Apparent Power (kVA) Measurement								
		9AELP1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1			
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1			

Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation				High Level Interfac	Remark	
							AI	AO	DI	DO			
FL10		10DB1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1		1		
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1				
				ON/OFF Status of Branch Feeder CBs	ON/OFF Status of Branch Feeder CBs	DI			14				
				Voltage Measurement	Digital Meter	Modbus Interface							
				Current Measurement									
				Energy Consumption (kWh) Measurement									
				Real Power (kW) Measurement									
				Power Factor Measurement									
Apparent Power (kVA) Measurement													
		10ELP1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1				
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1				
FL11		11DB1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1	1			
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1				
				ON/OFF Status of Branch Feeder CBs	ON/OFF Status of Branch Feeder CBs	DI			12				
				Voltage Measurement	Digital Meter	Modbus Interface							
				Current Measurement									
				Energy Consumption (kWh) Measurement									
				Real Power (kW) Measurement									
				Power Factor Measurement									
Apparent Power (kVA) Measurement													
		11ELP1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1				
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1				
FL12		12DB1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1	1			
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1				
				ON/OFF Status of Branch Feeder CBs	ON/OFF Status of Branch Feeder CBs	DI			12				
				Voltage Measurement	Digital Meter	Modbus Interface							
				Current Measurement									
				Energy Consumption (kWh) Measurement									
				Real Power (kW) Measurement									
				Power Factor Measurement									
Apparent Power (kVA) Measurement													
		12ELP1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1				
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1				

Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation				High Level Interfac	Remark	
							AI	AO	DI	DO			
FL13		13DB1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1		1		
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1				
				ON/OFF Status of Branch Feeder CBs	ON/OFF Status of Branch Feeder CBs	DI			12				
				Voltage Measurement	Digital Meter	Modbus Interface							
				Current Measurement									
				Energy Consumption (kWh) Measurement									
				Real Power (kW) Measurement									
				Power Factor Measurement									
				Apparent Power (kVA) Measurement									
						13ELP1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			
Trip Alarm of Main CB	Trip Alarm of Main CB	DI						1					
FL14		14DB1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI		1		1			
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI		1					
				ON/OFF Status of Branch Feeder CBs	ON/OFF Status of Branch Feeder CBs	DI		12					
				Voltage Measurement	Digital Meter	Modbus Interface							
				Current Measurement									
				Energy Consumption (kWh) Measurement									
				Real Power (kW) Measurement									
				Power Factor Measurement									
				Apparent Power (kVA) Measurement									
						14EDB1		ON/OFF Status of Main CB	ON/OFF Status of Main CB			DI	
Trip Alarm of Main CB	Trip Alarm of Main CB	DI						1					
ON/OFF Status of Branch Feeder CBs	ON/OFF Status of Branch Feeder CBs	DI						6					
Voltage Measurement	Digital Meter	Modbus Interface											
Current Measurement													
Energy Consumption (kWh) Measurement													
Real Power (kW) Measurement													
		14ELP1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI		1					
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI		1					
		14EPP1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI		1					
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI		1					

Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation				High Level interfac	Remark	
							AI	AO	DI	DO			
FL15		15DB1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1		1		
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1				
				ON/OFF Status of Branch Feeder CBs	ON/OFF Status of Branch Feeder CBs	DI			14				
				Voltage Measurement	Digital Meter	Modbus Interface							
				Current Measurement									
				Energy Consumption (kWh) Measurement									
				Real Power (kW) Measurement									
				Power Factor Measurement									
				Apparent Power (kVA) Measurement									
15ELP1				ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1				
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1				
FL16		16DB1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1	1			
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1				
				ON/OFF Status of Branch Feeder CBs	ON/OFF Status of Branch Feeder CBs	DI			14				
				Voltage Measurement	Digital Meter	Modbus Interface							
				Current Measurement									
				Energy Consumption (kWh) Measurement									
				Real Power (kW) Measurement									
				Power Factor Measurement									
				Apparent Power (kVA) Measurement									
16ELP1				ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1				
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1				
FL17		17DB1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1	1			
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1				
				ON/OFF Status of Branch Feeder CBs	ON/OFF Status of Branch Feeder CBs	DI			14				
				Voltage Measurement	Digital Meter	Modbus Interface							
				Current Measurement									
				Energy Consumption (kWh) Measurement									
				Real Power (kW) Measurement									
				Power Factor Measurement									
Apparent Power (kVA) Measurement													
17ELP1				ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1				
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1				

Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation				High Level Interfac	Remark
							AI	AO	DI	DO		
FL18		18DB1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1		1	
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1			
				ON/OFF Status of Branch Feeder CBs	ON/OFF Status of Branch Feeder CBs	DI			14			
				Voltage Measurement	Digital Meter	Modbus Interface						
				Current Measurement								
				Energy Consumption (kWh) Measurement								
				Real Power (kW) Measurement								
				Power Factor Measurement								
				Apparent Power (kVA) Measurement								
						18ELP1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI		
Trip Alarm of Main CB	Trip Alarm of Main CB	DI						1				
FL19		19DB1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI		1		1		
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI		1				
				ON/OFF Status of Branch Feeder CBs	ON/OFF Status of Branch Feeder CBs	DI		14				
				Voltage Measurement	Digital Meter	Modbus Interface						
				Current Measurement								
				Energy Consumption (kWh) Measurement								
				Real Power (kW) Measurement								
				Power Factor Measurement								
				Apparent Power (kVA) Measurement								
						19ELP1		ON/OFF Status of Main CB	ON/OFF Status of Main CB			DI
Trip Alarm of Main CB	Trip Alarm of Main CB	DI						1				
FL20		20DB1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI		1		1		
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI		1				
				ON/OFF Status of Branch Feeder CBs	ON/OFF Status of Branch Feeder CBs	DI		14				
				Voltage Measurement	Digital Meter	Modbus Interface						
				Current Measurement								
				Energy Consumption (kWh) Measurement								
				Real Power (kW) Measurement								
				Power Factor Measurement								
Apparent Power (kVA) Measurement												
		20ELP1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI		1				
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI		1				

Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation				High Level interfac	Remark	
							AI	AO	DI	DO			
FL21		21DB1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1		1		
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1				
				ON/OFF Status of Branch Feeder CBs	ON/OFF Status of Branch Feeder CBs	DI			14				
				Voltage Measurement	Digital Meter	Modbus Interface							
				Current Measurement									
				Energy Consumption (kWh) Measurement									
				Real Power (kW) Measurement									
				Power Factor Measurement									
				Apparent Power (kVA) Measurement									
21ELP1				ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1				
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1				
FL22		22DB1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1	1			
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1				
				ON/OFF Status of Branch Feeder CBs	ON/OFF Status of Branch Feeder CBs	DI			15				
				Voltage Measurement	Digital Meter	Modbus Interface							
				Current Measurement									
				Energy Consumption (kWh) Measurement									
				Real Power (kW) Measurement									
				Power Factor Measurement									
				Apparent Power (kVA) Measurement									
22ELP1				ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1				
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1				
FL23		23DB1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1	1			
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1				
				ON/OFF Status of Branch Feeder CBs	ON/OFF Status of Branch Feeder CBs	DI			14				
				Voltage Measurement	Digital Meter	Modbus Interface							
				Current Measurement									
				Energy Consumption (kWh) Measurement									
				Real Power (kW) Measurement									
				Power Factor Measurement									
				Apparent Power (kVA) Measurement									
23ELP1				ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1				
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1				

Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation				High Level interfac	Remark	
							AI	AO	DI	DO			
FL24		24DB1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1		1		
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1				
				ON/OFF Status of Branch Feeder CBs	ON/OFF Status of Branch Feeder CBs	DI			16				
				Voltage Measurement	Digital Meter	Modbus Interface							
				Current Measurement									
				Energy Consumption (kWh) Measurement									
				Real Power (kW) Measurement									
				Power Factor Measurement									
				Apparent Power (kVA) Measurement									
		24EDB1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1	1			
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1				
				ON/OFF Status of Branch Feeder CBs	ON/OFF Status of Branch Feeder CBs	DI			6				
				Voltage Measurement	Digital Meter	Modbus Interface							
				Current Measurement									
				Energy Consumption (kWh) Measurement									
				Real Power (kW) Measurement									
				Power Factor Measurement									
				Apparent Power (kVA) Measurement									
FL25		25EDB1		ON/OFF Status of Main CB	ON/OFF Status of Main CB	DI			1	1			
				Trip Alarm of Main CB	Trip Alarm of Main CB	DI			1				
				ON/OFF Status of Branch Feeder CBs	ON/OFF Status of Branch Feeder CBs	DI			6				
				Voltage Measurement	Digital Meter	Modbus Interface							
				Current Measurement									
				Energy Consumption (kWh) Measurement									
				Real Power (kW) Measurement									
				Power Factor Measurement									
Apparent Power (kVA) Measurement													
Total Point						638	4	0	599	0	35		
Grand Total Point						638	4	0	599	0	35		

Remark***

- DI : Digital Input
- BI : Thermister Input
- UI : Universal Input
- DO : Digital Output
- AO : Analog Output
- VSD : Variable Speed Drive
- SNVT : Standard Network Variable Type According to Echelon® Specification.

Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation				High Level interfac	Remark
							AI	AO	DI	DO		
		LIGHTING SYSTEM										
B2		Lighting E		ON/OFF Lighting	Control Relay	DO				18		
B1		Lighting E		ON/OFF Lighting	Control Relay	DO				23		
FL1		Lighting		ON/OFF Lighting	Control Relay	DO				17		
		Lighting E		ON/OFF Lighting	Control Relay	DO				19		
FL2		Lighting		ON/OFF Lighting	Control Relay	DO				10		
		Lighting E		ON/OFF Lighting	Control Relay	DO				11		
FL3		Lighting		ON/OFF Lighting	Control Relay	DO				9		
		Lighting E		ON/OFF Lighting	Control Relay	DO				11		
FL4		Lighting		ON/OFF Lighting	Control Relay	DO				7		
		Lighting E		ON/OFF Lighting	Control Relay	DO				12		
FL5		Lighting		ON/OFF Lighting	Control Relay	DO				7		
		Lighting E		ON/OFF Lighting	Control Relay	DO				12		
FL6		Lighting		ON/OFF Lighting	Control Relay	DO				7		
		Lighting E		ON/OFF Lighting	Control Relay	DO				12		
FL7		Lighting		ON/OFF Lighting	Control Relay	DO				6		
		Lighting E		ON/OFF Lighting	Control Relay	DO				11		
FL8		Lighting		ON/OFF Lighting	Control Relay	DO				3		
		Lighting E		ON/OFF Lighting	Control Relay	DO				14		

Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation				High Level interfac	Remark
							AI	AO	DI	DO		
FL9		Lighting		ON/OFF Lighting	Control Relay	DO				3		
		Lighting E		ON/OFF Lighting	Control Relay	DO				6		
FL9A		Lighting		ON/OFF Lighting	Control Relay	DO				15		
		Lighting E		ON/OFF Lighting	Control Relay	DO				9		
FL10		Lighting		ON/OFF Lighting	Control Relay	DO				10		
		Lighting E		ON/OFF Lighting	Control Relay	DO				6		
FL11		Lighting		ON/OFF Lighting	Control Relay	DO				6		
		Lighting E		ON/OFF Lighting	Control Relay	DO				7		
FL12		Lighting		ON/OFF Lighting	Control Relay	DO				2		
		Lighting E		ON/OFF Lighting	Control Relay	DO				5		
FL13		Lighting		ON/OFF Lighting	Control Relay	DO				2		
		Lighting E		ON/OFF Lighting	Control Relay	DO				5		
FL14		Lighting		ON/OFF Lighting	Control Relay	DO				2		
		Lighting E		ON/OFF Lighting	Control Relay	DO				5		
FL15		Lighting		ON/OFF Lighting	Control Relay	DO				2		
		Lighting E		ON/OFF Lighting	Control Relay	DO				6		
FL16		Lighting		ON/OFF Lighting	Control Relay	DO				1		
		Lighting E		ON/OFF Lighting	Control Relay	DO				4		

Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation				High Level interfac	Remark
							AI	AO	DI	DO		
FL17		Lighting		ON/OFF Lighting	Control Relay	DO				1		
		Lighting E		ON/OFF Lighting	Control Relay	DO				4		
FL18		Lighting		ON/OFF Lighting	Control Relay	DO				1		
		Lighting E		ON/OFF Lighting	Control Relay	DO				4		
FL19		Lighting		ON/OFF Lighting	Control Relay	DO				1		
		Lighting E		ON/OFF Lighting	Control Relay	DO				4		
FL20		Lighting		ON/OFF Lighting	Control Relay	DO				1		
		Lighting E		ON/OFF Lighting	Control Relay	DO				6		
FL21		Lighting		ON/OFF Lighting	Control Relay	DO				1		
		Lighting E		ON/OFF Lighting	Control Relay	DO				4		
FL22		Lighting		ON/OFF Lighting	Control Relay	DO				1		
		Lighting E		ON/OFF Lighting	Control Relay	DO				4		
FL23		Lighting		ON/OFF Lighting	Control Relay	DO				1		
		Lighting E		ON/OFF Lighting	Control Relay	DO				4		
FL24		Lighting		ON/OFF Lighting	Control Relay	DO				1		
		Lighting E		ON/OFF Lighting	Control Relay	DO				4		
FL25		Lighting		ON/OFF Lighting	Control Relay	DO				4		
		Lighting E		ON/OFF Lighting	Control Relay	DO				7		

Building Management System Point List

LIGHTING SYSTEM

Project : BLOCK H

Location : Bangkok

SITE83 CO.,LTD.

Floor	IPDDC Panel	Equipmnet	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation				High Level interfac	Remark
							AI	AO	DI	DO		
					Total Point	358	0	0	0	358	0	
					Grand Total Point	358	0	0	0	358	0	

Remark***

- DI : Digital Input
- DO : Digital Output
- AI : Analog Input
- AO : Analog Output

Floor	IPDDC Panel	Equipiment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation				High Level interfac	Remark
							AI	AO	DI	DO		
B2		Water tank										
		Water Tank 1		Tank Level	Hydro static level transmitter	AI	1					
				Water tank high level water alarm		DI			1		Alarm at 100 % of tank level	
				Water tank low level water alarm		DI			1		Alarm at 30 % of tank level	
				Water tank lowest level water alarm		DI			1		Alarm at 15 % of tank level PUMP STOP	
		Water Tank 2		Tank Level	Hydro static level transmitter	AI	1					
				Water tank high level water alarm		DI			1		Alarm at 100 % of tank level	
				Water tank low level water alarm		DI			1		Alarm at 30 % of tank level	
				Water tank lowest level water alarm		DI			1		Alarm at 15 % of tank level PUMP STOP	
FL25		Roof tank 01		Tank Level	Hydro static level transmitter	AI	1					
				Water tank high level water alarm		DI			1		Alarm at 100 % of tank level	
				Water tank low level water alarm		DI			1		Alarm at 30 % of tank level	
				Water tank lowest level water alarm		DI			1		Alarm at 15 % of tank level PUMP STOP	
FL25		Roof tank 02		Tank Level	Hydro static level transmitter	AI	1					
				Water tank high level water alarm		DI			1		Alarm at 100 % of tank level	
				Water tank low level water alarm		DI			1		Alarm at 30 % of tank level	
				Water tank lowest level water alarm		DI			1		Alarm at 15 % of tank level PUMP STOP	
B2		Water pump										
		Transfer pump (TP-01,02,03) (2-Operated,1-Standby)		Panel board manual off/Auto status	Voltage free contact (VFC)	DI			3			
				Control start/stop	Coil relay	DO				0	Automatic operated by pump control panel	
				On/off status	Voltage free contact (VFC)	DI			3			
				Water pressure	Pressure Transmitter	AI	3					
				Common alarm/fault/motor trip	Voltage free contact (VFC)	DI			3			
		Packaged Booster pump (PBP-01,02,03) (2-Operated,1-Standby)		Panel board manual off/Auto status	Voltage free contact (VFC)	DI			3			
				Control start/stop	Coil relay	DO				0	Automatic operated by pump control panel	
				On/off status	Voltage free contact (VFC)	DI			3			
				Water pressure	Pressure Transmitter	AI	3					
				Common alarm/fault/motor trip	Voltage free contact (VFC)	DI			3			

Floor	IPDDC Panel	Equipmnet	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation				High Level interfac	Remark
							AI	AO	DI	DO		
B1		WWTP										
		Equalizing tank		Tank Level	Hydro static level ttransmitter	AI	1					
				Tank high level alarm		DI			1		Alarm at 90 % of tank level	
				Tank low level alarm		DI			1		Alarm at 30 % of tank level	
				Tank lowest level alarm		DI			1		Alarm at 15 % of tank level PUMP STOP	
		Effluent tank		Tank Level	Hydro static level ttransmitter	AI	1					
				Tank high level alarm		DI			1		Alarm at 90 % of tank level	
				Tank low level alarm		DI			1		Alarm at 30 % of tank level	
				Tank lowest level alarm		DI			1		Alarm at 15 % of tank level PUMP STOP	
		Grease Skimmer		Panel board manual off/Auto status	Selector switch	DI			1			
		SK-101		Control start/stop	Coil relay	DO				0	Automatic operated by pumpcontrol panel	
				On/off status	Voltage free contact (VFC)	DI			1			
				Motor trip alarm	Voltage free contact (VFC)	DI			1			
		EQ Pump		Panel board manual off/Auto status	Selector switch	DI			2			
		EP-01,02		Control start/stop	Coil relay	DO				0	Automatic operated by pumpcontrol panel	
		(1-Operated,1-Standby and assist)		On/off status	Voltage free contact (VFC)	DI			2			
				Motor trip alarm	Voltage free contact (VFC)	DI			2			
		EQ Pump		Panel board manual off/Auto status	Selector switch	DI			2			
		EP-03,04		Control start/stop	Coil relay	DO				0	Automatic operated by pumpcontrol panel	
		(1-Operated,1-Standby and assist)		On/off status	Voltage free contact (VFC)	DI			2			
				Motor trip alarm	Voltage free contact (VFC)	DI			2			
		Air Blower		Panel board manual off/Auto status	Voltage free contact (VFC)	DI			2			
		AR-01,02		Control start/stop	Coil relay	DO				0	Automatic operated by pumpcontrol panel	
		(1-Operated,1-Standby)		On/off status	Voltage free contact (VFC)	DI			2			
				Motor trip alarm	Voltage free contact (VFC)	DI			2			
		Air Blower		Panel board manual off/Auto status	Voltage free contact (VFC)	DI			2			
		AR-03,04		Control start/stop	Coil relay	DO				0	Automatic operated by pumpcontrol panel	
		(1-Operated,1-Standby)		On/off status	Voltage free contact (VFC)	DI			2			
				Motor trip alarm	Voltage free contact (VFC)	DI			2			
		Mixer Aereter		Panel board manual off/Auto status	Voltage free contact (VFC)	DI			2			
		MX-01,02		Control start/stop	Coil relay	DO				0	Automatic operated by pumpcontrol panel	
		(1-Operated,1-Standby)		On/off status	Voltage free contact (VFC)	DI			2			
				Motor trip alarm	Voltage free contact (VFC)	DI			2			

Floor	IPDDC Panel	Equipiment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation				High Level interfac	Remark
							AI	AO	DI	DO		
		Sludge Return pump		Panel board manual off/Auto status	Voltage free contact (VFC)	DI			2			
		SLR-01, 02		Control start/stop	Coil relay	DO				0	Automatic operated by pumpcontrol panel	
		(1-Operated,1-Standby)		On/off status	Voltage free contact (VFC)	DI			2			
				Motor trip alarm	Voltage free contact (VFC)	DI			2			
		Sludge Return pump		Panel board manual off/Auto status	Voltage free contact (VFC)	DI			2			
		SLR-03, 04		Control start/stop	Coil relay	DO				0	Automatic operated by pumpcontrol panel	
		(1-Operated,1-Standby)		On/off status	Voltage free contact (VFC)	DI			2			
				Motor trip alarm	Voltage free contact (VFC)	DI			2			
		Effluent pump		Panel board manual off/Auto status	Voltage free contact (VFC)	DI			2			
		EFP-01,02		Control start/stop	Coil relay	DO				0	Automatic operated by pumpcontrol panel	
		(1-Operated,1-Standby)		On/off status	Voltage free contact (VFC)	DI			2			
				Motor trip alarm	Voltage free contact (VFC)	DI			2			
		Decanter -01,02		Panel board manual off/Auto status	Voltage free contact (VFC)	DI			2			
		(1-Operated,1-Standby)		Control start/stop	Coil relay	DO				0	Automatic operated by pumpcontrol panel	
				On/off status	Voltage free contact (VFC)	DI			2			
				Motor trip alarm	Voltage free contact (VFC)	DI			2			
		Drainage system										
B2		Retention Tank		Sump level	Hydro static level ttransmitter	AI	1					
				Water tank high level water alarm		DI			1		Alarm at 90 % of tank level	
				Water tank low level water alarm		DI			1		Alarm at 30 % of tank level	
		Sewage Sump		Sump level	Hydro static level ttransmitter	AI	1					
				Water tank high level water alarm		DI			1		Alarm at 90 % of tank level	
				Water tank low level water alarm		DI			1		Alarm at 30 % of tank level	
FL1		Check Pit		Sump level	Hydro static level ttransmitter	AI	1					
				Water tank high level water alarm		DI			1		Alarm at 90 % of tank level	
				Water tank low level water alarm		DI			1		Alarm at 30 % of tank level	
B2		Drainage pump		Panel board manual off/Auto status	Voltage free contact (VFC)	DI			3			
		DP-01,02,03		Control start/stop	Coil relay	DO				0	Automatic operated by pumpcontrol panel	
		(2-Operated,1-Standby and assist)		On/off status	Voltage free contact (VFC)	DI			3			
				Motor trip alarm	Voltage free contact (VFC)	DI			3			

Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation				High Level interfac	Remark
							AI	AO	DI	DO		
FL6		Fire pump set										
		Diesel fire pump		Panel board manual off/Auto status	Voltage free contact (VFC)	DI			1			
		FP-01		Control start/stop	Coil relay	DO				0	Automatic operated by fire pumpcontroller	
				On/off status	Voltage free contact (VFC)	DI			1			
				Common alarm/Fault/Motor trip	Voltage free contact (VFC)	DI			1			
		Jockey pump		Panel board manual off/Auto status	Voltage free contact (VFC)	DI			1			
		JP-01		Control start/stop	Coil relay	DO				0	Automatic operated by fire pumpcontroller	
				On/off status	Voltage free contact (VFC)	DI			1			
				Common alarm/Fault/Motor trip	Voltage free contact (VFC)	DI			1			
FL5		Fire Protection Water tank										
		Water Tank		Tank Level	Hydro static level transmitter	AI	1					
				Water tank high level water alarm		DI			1		Alarm at 100 % of tank level	
				Water tank low level water alarm		DI			1		Alarm at 30 % of tank level	
		Supervisory Switch and Flow Switch										
B2		Supervisory Switch		On/off status		DI			3			
		Flow Switch		On/off status		DI			3			
B1		Supervisory Switch		On/off status		DI			3			
		Flow Switch		On/off status		DI			3			
FL1		Supervisory Switch		On/off status		DI			3			
		Flow Switch		On/off status		DI			3			
FL1A		Supervisory Switch		On/off status		DI			3			
		Flow Switch		On/off status		DI			3			
FL2		Supervisory Switch		On/off status		DI			3			
		Flow Switch		On/off status		DI			3			
FL2A		Supervisory Switch		On/off status		DI			3			
		Flow Switch		On/off status		DI			3			
FL3		Supervisory Switch		On/off status		DI			3			
		Flow Switch		On/off status		DI			3			
FL3A		Supervisory Switch		On/off status		DI			3			
		Flow Switch		On/off status		DI			3			
FL4		Supervisory Switch		On/off status		DI			3			
		Flow Switch		On/off status		DI			3			
FL5		Supervisory Switch		On/off status		DI			3			
		Flow Switch		On/off status		DI			3			
FL6		Supervisory Switch		On/off status		DI			3			
		Flow Switch		On/off status		DI			3			

Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation				High Level interfac	Remark
							AI	AO	DI	DO		
FL7		Supervisory Switch		On/off status		DI			3			
		Flow Switch		On/off status		DI			3			
FL8		Supervisory Switch		On/off status		DI			3			
		Flow Switch		On/off status		DI			3			
FL9		Supervisory Switch		On/off status		DI			1			
		Flow Switch		On/off status		DI			1			
FL9A		Supervisory Switch		On/off status		DI			3			
		Flow Switch		On/off status		DI			3			
FL10		Supervisory Switch		On/off status		DI			1			
		Flow Switch		On/off status		DI			1			
FL11		Supervisory Switch		On/off status		DI			1			
		Flow Switch		On/off status		DI			1			
FL12		Supervisory Switch		On/off status		DI			1			
		Flow Switch		On/off status		DI			1			
FL13		Supervisory Switch		On/off status		DI			1			
		Flow Switch		On/off status		DI			1			
FL14		Supervisory Switch		On/off status		DI			1			
		Flow Switch		On/off status		DI			1			
FL15		Supervisory Switch		On/off status		DI			1			
		Flow Switch		On/off status		DI			1			
FL16		Supervisory Switch		On/off status		DI			1			
		Flow Switch		On/off status		DI			1			
FL17		Supervisory Switch		On/off status		DI			1			
		Flow Switch		On/off status		DI			1			
FL18		Supervisory Switch		On/off status		DI			1			
		Flow Switch		On/off status		DI			1			
FL19		Supervisory Switch		On/off status		DI			1			
		Flow Switch		On/off status		DI			1			
FL20		Supervisory Switch		On/off status		DI			1			
		Flow Switch		On/off status		DI			1			
FL21		Supervisory Switch		On/off status		DI			1			
		Flow Switch		On/off status		DI			1			
FL22		Supervisory Switch		On/off status		DI			1			
		Flow Switch		On/off status		DI			1			
FL23		Supervisory Switch		On/off status		DI			1			
		Flow Switch		On/off status		DI			1			
FL24		Supervisory Switch		On/off status		DI			1			
		Flow Switch		On/off status		DI			1			
FL25		Supervisory Switch		On/off status		DI			1			
		Flow Switch		On/off status		DI			1			

Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation				High Level interfac	Remark
							AI	AO	DI	DO		
					Total Point	127	1	0	126	0	0	
					Grand Total Point	127	1	0	126	0	0	

Remark***

- DI : Digital Input
- DO : Digital Output
- AI : Analog Input
- AO : Analog Output



Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation				High Level interfac	Remark
							AI	AO	DI	DO		
		LPG System										
FL1		Gas supply meter		Gas Meter	Pulse input	AI	1					
		Gas leak detector										
FL1		Gas Station		Gas Detector	Pulse input	AI	1					
FL1		SHAFT LPG		Gas Detector	Pulse input	AI	1					
FL3		SHAFT LPG		Gas Detector	Pulse input	AI	1					
FL9		SHAFT LPG		Gas Detector	Pulse input	AI	1					
FL1		Restaurant		Gas Detector	Pulse input	AI	6					
FL3		Restaurant		Gas Detector	Pulse input	AI	13					
FL9		Restaurant		Gas Detector	Pulse input	AI	9					
					Total Point		33	0	0	0	0	
					Grand Total Point		33	0	0	0	0	

Remark***

- DI : Digital Input
- DO : Digital Output
- AI : Analog Input
- AO : Analog Output



Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation				High Level interfac	Remark
							AI	AO	DI	DO		
		Elevators										
		Lift 01-04		ON/OFF Status	VFC	DI			4			
		(Low Zone lift)		Floor Status	VFC	DI			4			
				Door Open/Close Status	VFC	DI			4			
				Up/Down Status	VFC	DI			4			
				Control Panel General Alarm	VFC	DI			4			
		Lift 05-08		ON/OFF Status	VFC	DI			4			
		(High Zone lift)		Floor Status	VFC	DI			4			
				Door Open/Close Status	VFC	DI			4			
				Up/Down Status	VFC	DI			4			
				Control Panel General Alarm	VFC	DI			4			
		Lift -09		ON/OFF Status	VFC	DI			1			
		(Fireman lift)		Floor Status	VFC	DI			4			
				Door Open/Close Status	VFC	DI			4			
				Up/Down Status	VFC	DI			4			
				Control Panel General Alarm	VFC	DI			4			
		Escalators										
FL2		ES-01-1		ON/OFF Status	VFC	DI			1			
				Up/Down Status	VFC	DI			1			
				Control Panel General Alarm	VFC	DI			1			
		ES-01-2		ON/OFF Status	VFC	DI			1			
				Up/Down Status	VFC	DI			1			
				Control Panel General Alarm	VFC	DI			1			
FL3		ES-01-3		ON/OFF Status	VFC	DI			1			
				Up/Down Status	VFC	DI			1			
				Control Panel General Alarm	VFC	DI			1			
		ES-01-4		ON/OFF Status	VFC	DI			1			
				Up/Down Status	VFC	DI			1			
				Control Panel General Alarm	VFC	DI			1			

Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation				High Level interfac	Remark
							AI	AO	DI	DO		
FL4		ES-02-1		ON/OFF Status	VFC	DI			1			
				Up/Down Status	VFC	DI			1			
				Control Panel General Alarm	VFC	DI			1			
		ES-02-2		ON/OFF Status	VFC	DI			1			
				Up/Down Status	VFC	DI			1			
				Control Panel General Alarm	VFC	DI			1			
FL5		ES-02-3		ON/OFF Status	VFC	DI			1			
				Up/Down Status	VFC	DI			1			
				Control Panel General Alarm	VFC	DI			1			
		ES-02-4		ON/OFF Status	VFC	DI			1			
				Up/Down Status	VFC	DI			1			
				Control Panel General Alarm	VFC	DI			1			
FL6		ES-02-5		ON/OFF Status	VFC	DI			1			
				Up/Down Status	VFC	DI			1			
				Control Panel General Alarm	VFC	DI			1			
		ES-02-6		ON/OFF Status	VFC	DI			1			
				Up/Down Status	VFC	DI			1			
				Control Panel General Alarm	VFC	DI			1			
FL7		ES-02-7		ON/OFF Status	VFC	DI			1			
				Up/Down Status	VFC	DI			1			
				Control Panel General Alarm	VFC	DI			1			
		ES-02-8		ON/OFF Status	VFC	DI			1			
				Up/Down Status	VFC	DI			1			
				Control Panel General Alarm	VFC	DI			1			
FL8		ES-02-9		ON/OFF Status	VFC	DI			1			
				Up/Down Status	VFC	DI			1			
				Control Panel General Alarm	VFC	DI			1			
		ES-02-10		ON/OFF Status	VFC	DI			1			
				Up/Down Status	VFC	DI			1			
				Control Panel General Alarm	VFC	DI			1			

Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation				High Level interfac	Remark
							AI	AO	DI	DO		
FL9		ES-03-01		ON/OFF Status	VFC	DI			1			
				Up/Down Status	VFC	DI			1			
				Control Panel General Alarm	VFC	DI			1			
		ES-03-02		ON/OFF Status	VFC	DI			1			
				Up/Down Status	VFC	DI			1			
				Control Panel General Alarm	VFC	DI			1			
FL9A		ES-03-03		ON/OFF Status	VFC	DI			1			
				Up/Down Status	VFC	DI			1			
				Control Panel General Alarm	VFC	DI			1			
		ES-03-04		ON/OFF Status	VFC	DI			1			
				Up/Down Status	VFC	DI			1			
				Control Panel General Alarm	VFC	DI			1			
FL10		ES-03-05		ON/OFF Status	VFC	DI			1			
				Up/Down Status	VFC	DI			1			
				Control Panel General Alarm	VFC	DI			1			
		ES-03-06		ON/OFF Status	VFC	DI			1			
				Up/Down Status	VFC	DI			1			
				Control Panel General Alarm	VFC	DI			1			
FL11		ES-03-07		ON/OFF Status	VFC	DI			1			
				Up/Down Status	VFC	DI			1			
				Control Panel General Alarm	VFC	DI			1			
		ES-03-07		ON/OFF Status	VFC	DI			1			
				Up/Down Status	VFC	DI			1			
				Control Panel General Alarm	VFC	DI			1			
FL12		ES-03-08		ON/OFF Status	VFC	DI			1			
				Up/Down Status	VFC	DI			1			
				Control Panel General Alarm	VFC	DI			1			
		ES-03-09		ON/OFF Status	VFC	DI			1			
				Up/Down Status	VFC	DI			1			
				Control Panel General Alarm	VFC	DI			1			

Floor	IPDDC Panel	Equipment	QTY	Point Description	Field Devices	Type of BAS Point	Point Summation				High Level interfac	Remark
							AI	AO	DI	DO		
FL13		ES-03-10		ON/OFF Status	VFC	DI			1			
				Up/Down Status	VFC	DI			1			
				Control Panel General Alarm	VFC	DI			1			
		ES-03-11		ON/OFF Status	VFC	DI			1			
				Up/Down Status	VFC	DI			1			
				Control Panel General Alarm	VFC	DI			1			
FL14		ES-03-12		ON/OFF Status	VFC	DI			1			
				Up/Down Status	VFC	DI			1			
				Control Panel General Alarm	VFC	DI			1			
		ES-03-13		ON/OFF Status	VFC	DI			1			
				Up/Down Status	VFC	DI			1			
				Control Panel General Alarm	VFC	DI			1			
					Total Point	141	0	0	141	0	0	
					Grand Total Point	141	0	0	141	0	0	

Remark***

- DI : Digital Input
- DO : Digital Output
- AI : Analog Input
- AO : Analog Output