

ELECTRO MECHANICAL SYSTEMS - PER SYSTEM PROPOSALS											
SYSTEM	Equipment	Type of element	Quantity	Dimensions / Technical specs	DI	DO	AI	AO	Impulse Counter	M-Bus	Mod - Bus
Ventilation and Air-Conditioning (HVAC) System	AHU 1 - Heat Meters	energy meter	1	DN 30...100, Class 2					1		
	AHU 2 - Heat Meters	energy meter	1	DN 30...100, Class 2					1		
	AHU 3 - Heat Meters	energy meter	1	DN 30...100, Class 2					1		
	AHU 4 - Heat Meters	energy meter	1	DN 30...100, Class 2					1		
	AHU 6 - Heat Meters	energy meter	1	DN 30...100, Class 2					1		
	AHU 7 - Heat Meters	energy meter	1	DN 30...100, Class 2					1		
	PCA 1 - Heat Meters	energy meter	1	DN 30...100, Class 2					1		
	PCA 2 - Heat Meters	energy meter	1	DN 30...100, Class 2					1		
	PCA 3 - Heat Meters	energy meter	1	DN 30...100, Class 2					1		
	PCA 4 - Heat Meters	energy meter	1	DN 30...100, Class 2					1		
	PCA 5 - Heat Meters	energy meter	1	DN 30...100, Class 2					1		
	PCA 6 - Heat Meters	energy meter	1	DN 30...100, Class 2					1		
	AHU 1 - Heat Meters Cooling	energy meter	1	DN 30...100, Class 2					1		
	AHU 2 - Heat Meters Cooling	energy meter	1	DN 30...100, Class 2					1		
	AHU 3 - Heat Meters Cooling	energy meter	1	DN 30...100, Class 2					1		
	AHU 4 - Heat Meters Cooling	energy meter	1	DN 30...100, Class 2					1		
	AHU 6 - Heat Meters Cooling	energy meter	1	DN 30...100, Class 2					1		
	AHU 7 - Heat Meters Cooling	energy meter	1	DN 30...100, Class 2					1		
	PCA 1 - Heat Meters Cooling	energy meter	1	DN 30...100, Class 2					1		
	PCA 2 - Heat Meters Cooling	energy meter	1	DN 30...100, Class 2					1		
	PCA 3 - Heat Meters Cooling	energy meter	1	DN 30...100, Class 2					1		
	PCA 4 - Heat Meters Cooling	energy meter	1	DN 30...100, Class 2					1		
	PCA 5 - Heat Meters Cooling	energy meter	1	DN 30...100, Class 2					1		
	PCA 6 - Heat Meters Cooling	energy meter	1	DN 30...100, Class 2					1		
	FCUs Heating North/South Heat Meters	energy meter	2	DN 50, Class 2					2		
	FCUs Cooling North/South Heat Meters	energy meter	2	DN 50, Class 2					2		
	Boilers Heat Meter	energy meter	1	DN 80, Class 2					1		
	Radiators Heat Meter	energy meter	1	DN 40, Class 2					1		
	FCUs Translators room Heat Meter	energy meter	2	DN 50, Class 2					1		
	Chiller 1 & 2 Heat Meters - Cooling	energy meter	2	DN 100, Class 2					2		
	Chiller 1 & 2 Electrical Energy Meters	energy meter	2	3P+N with CTs, Class 2					2		
	Heating Network	pressure meter	1	0-10 bar			1				
	Heating Network	temperature sensor	1	-10...+120 °C			1				
	Cooling Network	pressure meter	1	0-10 bar			1				
	Cooling Network	temperature sensor	1	-10...+70 °C			1				
	Fuel Tanks leak detection	level switch	2	floating	2						
Potable Water System	Potable Water Network Pressure	pressure meter	1	0-10 bar			1				
	Potable Water Consumption Meters	volume meter	1	DN 50, Class 2					1		
Fire Protection Systems	Fire Fighting control panel interlock	dry contact	3	switch	3						
	Water Meter Consumption	volume meter	1	DN 50, Class 2					1		
	Fire Suppression fault/alarm	dry contact	11	switch	11						
Low Voltage Room	Electrical Energy Meter	energy meter	1	3P+N with CTs, Class 2						1	
	Electrical Energy Meter	energy meter	1	3P+N with CTs, Class 2						1	

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UPS Room	Collective fault (UPS room + MV)	dry contact	3	switch	3						
	Room Temperature & Humidity	temperature/humidity sensor	1	5...95 % r.h. 0...+50 °C			2				
Generator	Electrical Energy Meter	energy meter	1	3P+N with CTs, Class 2						1	
	Emergency Stop interlock	dry contact	1	switch	1						
Close Control Units Computer Room	Collective fault	dry contact	3	switch	3						
	Room Temperature & Humidity	temperature/humidity sensor	1	5...95 % r.h. 0...+50 °C			2				
Close Control Units Archive Room	Collective fault	dry contact	1	switch	1						
	Room Temperature & Humidity	temperature/humidity sensor	1	5...95 % r.h. 0...+50 °C			2				
Close Control Units UPS Room	Collective fault	dry contact	1	switch	1						
Public Address	Electrical Power Supply	dry contact	1	switch	1						
	Process Control	dry contact	1	switch		1					
Elevators 2,3	Physical Conditions	level switch	2	floating	2						
	Emergency Stop interlock	dry contact	2	switch	2						
Elevators 4	Physical Conditions	level switch	1	floating	1						
	Emergency Stop interlock	dry contact	1	switch	1						
Indoor/ Outdoor Lighting	Electrical Power Supply	N/A	N/A								
	Energy Meters	N/A	N/A								
Solar Shading	Electrical Power Supply	dry contact	1	switch	1						
	Collective fault	dry contact	1	switch	1						
Archive Rooms	Physical Conditions	water detection	1	4...20mA/ dry contact	1						
Publication Room	Room Temperature & Humidity	temperature/humidity sensor	1	5...95 % r.h. 0...+50 °C			2				
	Physical Conditions	water detection	1	4...20mA/ dry contact	1						
Irrigation System	Water Meter Consumption	volume meter	1	DN 50, Class 2					1		
	Process Control	dry contact	1	switch		1					
	Collective fault	dry contact	1	switch	1						
Kitchen Equipment	Domestic Hot Water Boiler (Kitchen)	energy meter	1	DN 30...50, Class 2					1		
	Freezer	temperature sensor	1	5...95 % r.h. -50...+70 °C			1				
	Cooler	temperature sensor	1	5...95 % r.h. -50...+70 °C			1				
	Collective fault	dry contact	1	switch	1						
	Physical Conditions	level switch	1	floating	1						
TOTAL DEVICES			95		39	2	15	0	39	3	0