



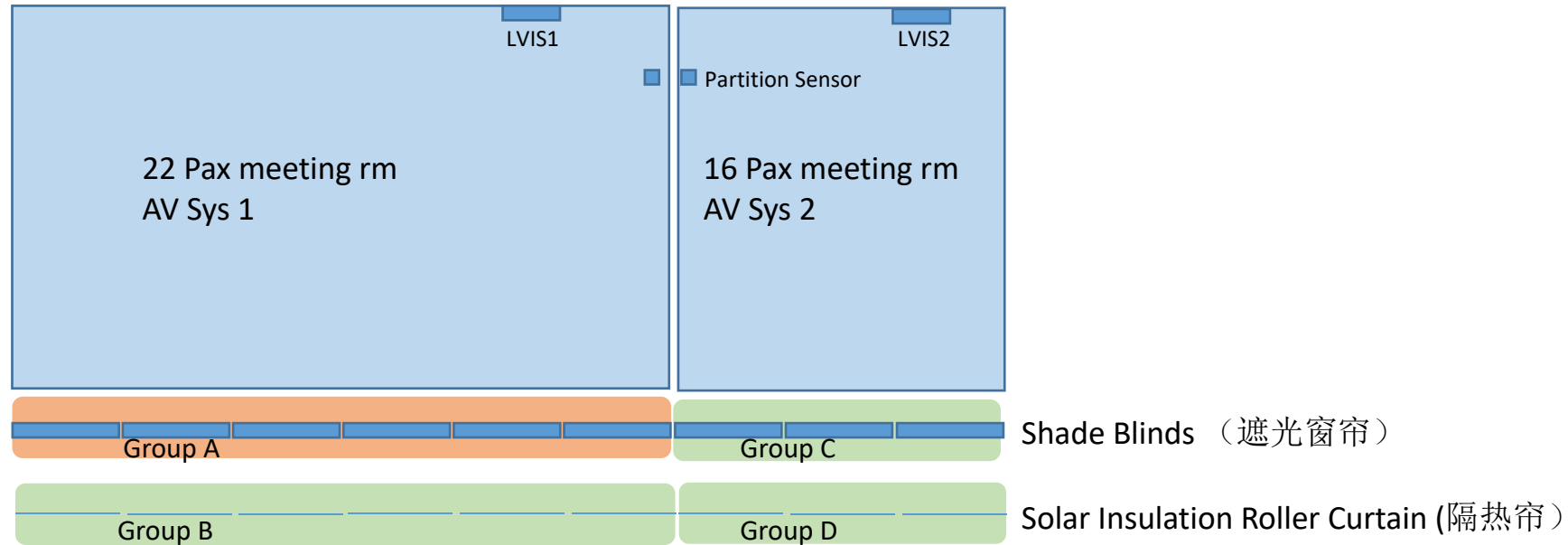
Meeting Room Blinds & CRAC Control Solution

*Shanghai Gline Net Co., Ltd
Certified Niagara SI*

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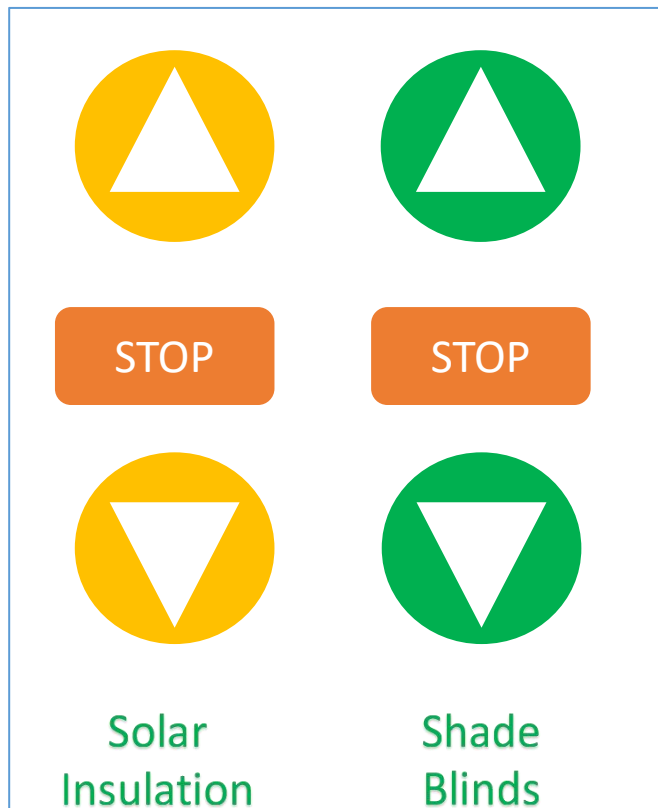
Meeting Room Device Layout



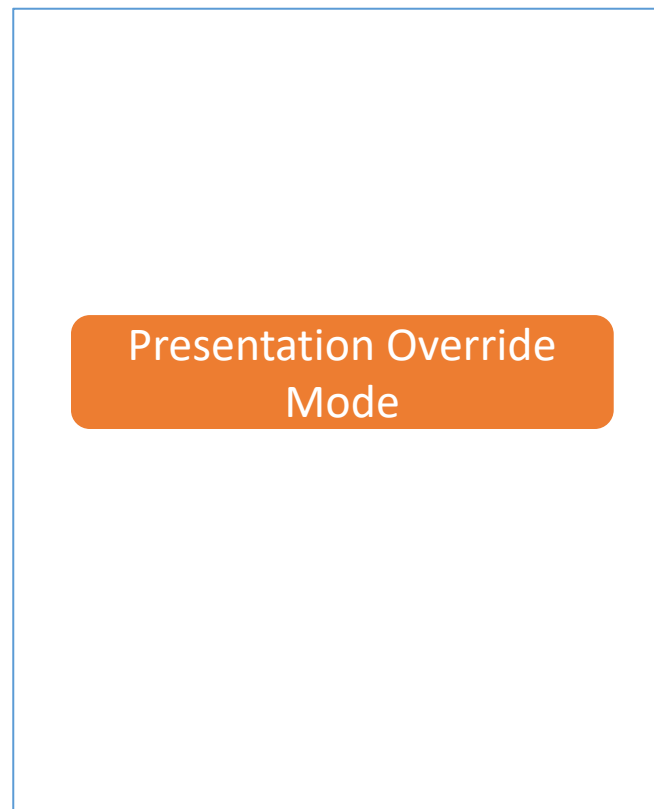
total 18 pcs Roller Curtains in 4 Groups
4 x 3 = 12 DO from EMS panel

LVIS Screen Display

Manual Mode



Override Mode



All Shade Blinds are down.

Lighting in presentation scene.

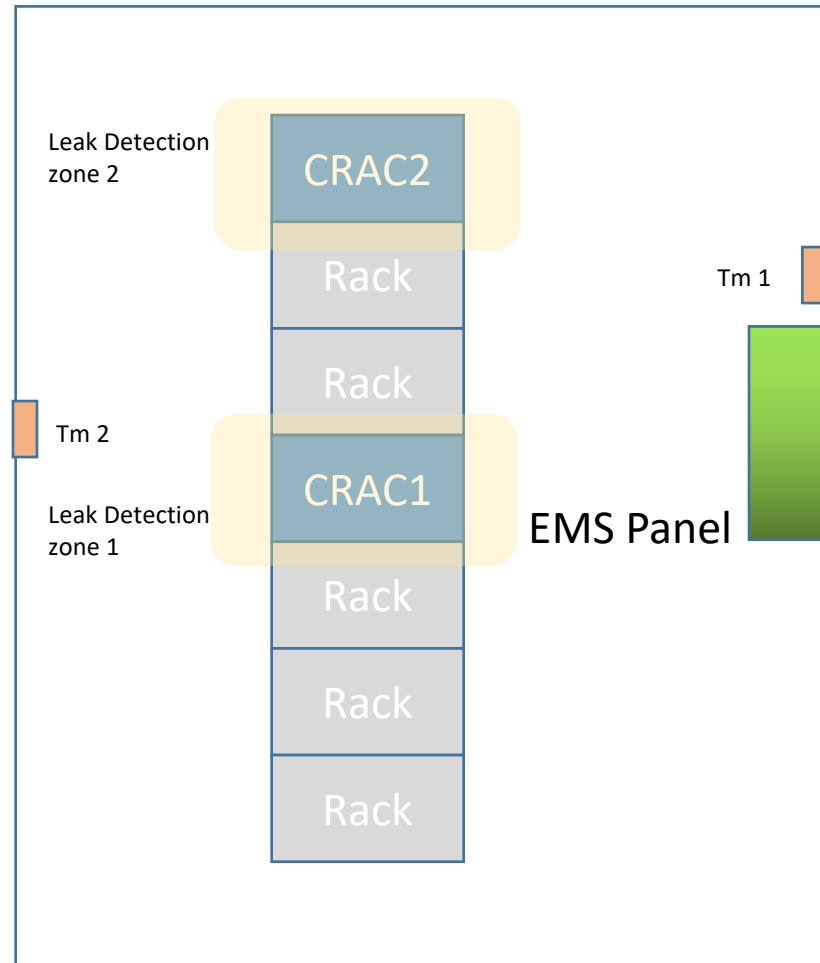
Blinds Control Scenario

Scenario	Triggers			22 Pax Meeting Room			16 Pax Meeting Room		
	AV SYS1	AV SYS2	P Sensor	Lighting scene	Blinds A/B	LVIS1	Lighting scene	Blinds E	LVIS2
Partition Closed	FALSE	FALSE	FALSE	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL
	TRUE	FALSE	FALSE	PPT mode Override	Automatic Down	Override Mode	MANUAL	MANUAL	MANUAL
	FALSE	TRUE	FALSE	MANUAL	MANUAL	MANUAL	PPT mode Override	Automatic Down	Override Mode
	TRUE	TRUE	FALSE	PPT mode Override	Automatic Down	Override Mode	PPT mode Override	Automatic Down	Override Mode
Partition Opened	FALSE	FALSE	TRUE	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL
	TRUE	FALSE	TRUE	PPT mode Override	Automatic Down	Override Mode	PPT mode Override	Automatic Down	Override Mode
	FALSE	TRUE	TRUE	PPT mode Override	Automatic Down	Override Mode	PPT mode Override	Automatic Down	Override Mode
	TRUE	TRUE	TRUE	PPT mode Override	Automatic Down	Override Mode	PPT mode Override	Automatic Down	Override Mode

PPT mode override: override control (Lighting, Blinds, LVIS) when AV system starts the presentation.

Manual: control the Lighting/Blinds manually by LVIS.

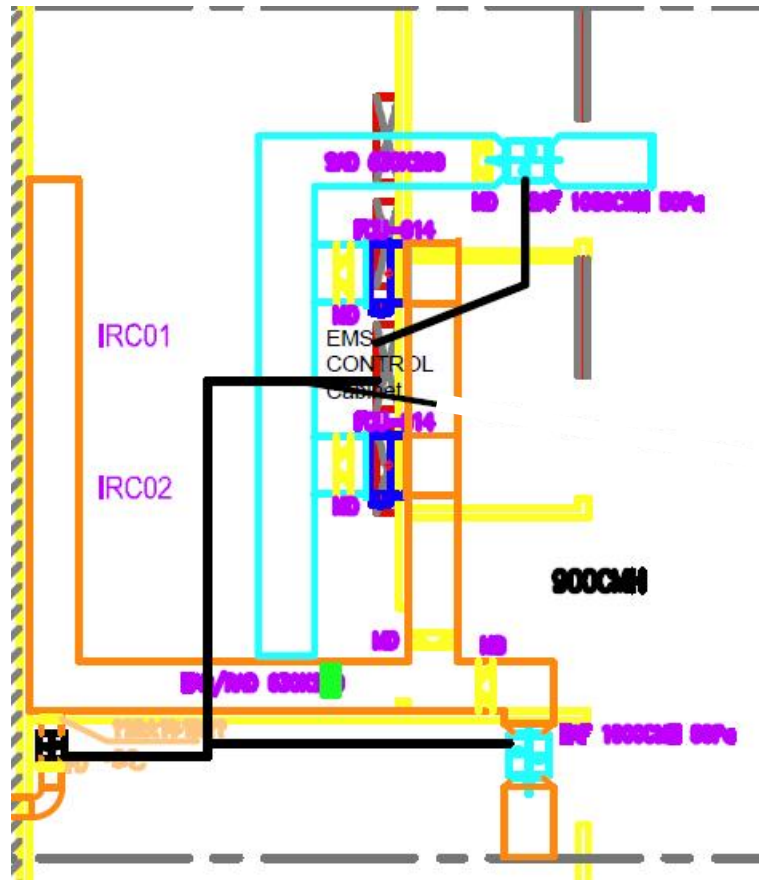
IT Room CRAC Integration



CRAC: Set Point, Start/Stop, Status & Alarm managed by EMS
Control Strategy:

1. One-work-One-Standy, rotate by preset number of hours
2. If Tm1 or Tm2 > preset alarm point and last x minute (user can set) , CRAC 1 and CRAC 2 will run simultaneously
3. If Leakage detection zone 1 = “water detected”, CRAC1 will stop and CRAC 2 will work
4. If leakage detection zone 2 = “water detected”, CRAC 2 will stop and CRAC 1 will work

IT Room Fan & Ventilation control



All IT room Fans (air inlet / outlet) are controlled by EMS panel;

The default EMS setting is “on” and wired thru “normal closed” point in the relay;

When FM200 is triggered a fire alarm signal and last 15s, FCU fans will stop immediately;

Alarm list

Alarm list in IT room CRAC/FCU control

Tm 1 or Tm 2 > preset alarm point and last x min

CRAC 1 or CRAC 2 is in abnormal status

Both CRAC 1 and CRAC 2 stop work

Water leakage detection is "True" (i.e. water detected)

FM200 fire alarm

Power outage in IT room

All alarms will be sent to user by SMS router