

SMART AUTOMATION BUILDING

Katalog ini menyajikan informasi mengenai sistem Smart Automation Building (SAB) yang memantau parameter seperti suhu, kelembaban, kualitas udara, energi, keamanan, dan lain lain pada bangunan.

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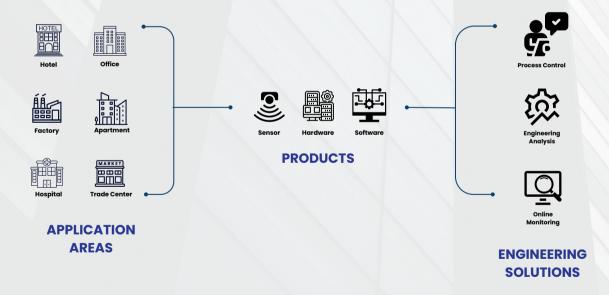
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OVERVIEW

Energi yang digunakan untuk mengoperasikan bangunan adalah sektor terbesar, sekitar 40% dari penggunaan energi global. Pengukuran kinerja bangunan membantu staf teknik mengelola energi dengan lebih baik. Panduan ini fokus pada strategi dan teknik pemantauan untuk mengurangi penggunaan energi dan mengoptimalkan kinerja fasilitas, mencakup pencahayaan, HVAC, kualitas udara dalam ruangan, dan lainnya.



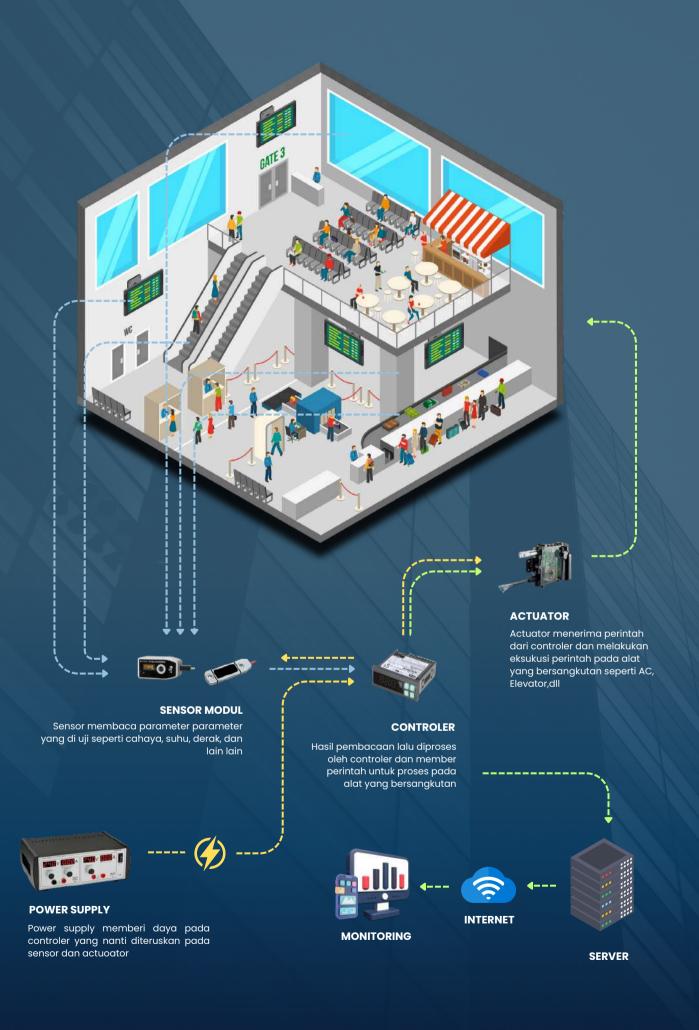
MONITOR SECTION

- Plumbing
- Elevator
- Fire Alarms
- Water Quality
- Water heater

- Electricity
- Lighting
- Structural Health Monitoring
- HVACs

- Escalators
- Temperature & Humidity









ELECTRICITYSaving Energy, Energy Distribution, Auditing Energy

FITUR	
Data Aquisition Yes	Yes
Control	On/off (based on equipment)
Automation Action	Yes
Monitor	Yes
Alert	On the spot/sms/email
Interface	PC/Remote
Connection	Wired/Wireless

PARAMETER

- KW/h (Power Consumption)
- Current

- Q (kVAr)
- S (kVA)
- Power Factor
- P (Watt)
- Cos-Phi
- Load Balance



FITUR	
Data Aquisition Yes	Yes
Control	On/Off, Propotion, PID
Automation Action	Yes
Monitor	Yes
Alert	On the spot/sms/email
Interface	PC/Remote
Connection	Wired/Wireless

PARAMETER

• Temp.

- Thermal Human
- ThRHCO2
- H2S
- Toxic Gas
- O2
- CO
- SO2
- Particle (ex.:PM10)





BOILER
Saving Energy, Long Time Usage

FITUR	
Data Aquisition Yes	Yes
Control	On/off ,Proportion (Valve,etc)
Automation Action	Yes
Monitor	Yes
Alert	On the spot/sms/email
Interface	PC/Remote
Connection	Wired/Wireless

Input Power

- Electrical Power
- Gas Energy (volumetric flow,mass flow, fluid pressure)

Output:

- Steam Pressure
- Steam Temperature
- Steam Flow/Velocity
- Steam Power (Calculation)



CHILLERSaving Energy, Long Time Usage

FITUR	
Data Aquisition Yes	Yes
Control	On/off ,Proportion (Valve,etc)
Automation Action	Yes
Monitor	Yes
Alert	On the spot/sms/email
Interface	PC/Remote
Connection	Wired/Wireless

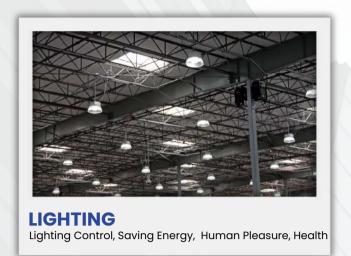
PARAMETER

Input Power :Electrical Power

Output:

- Output water: Temp, flow, pressure
- Return Water: Temp, flow, pressure
- Cold Water Storage: Temp, Level





FITUR	
Data Aquisition Yes	Yes
Control	On/off ,Proportion PID
Automation Action	Yes
Monitor	Yes
Alert	On the spot/sms/email
Interface	PC/Remote
Connection	Wired/Wireless

- Thermal Human
- Light Intensity



FITUR	
Data Aquisition Yes	Yes
Control	On/off ,Proportion PID
Automation Action	Yes
Monitor	Yes
Alert	On the spot/sms/email
Interface	PC/Remote
Connection	Wired/Wireless

- Flow Rate
- Pressure
- Turbidity
- Dissoved O2
- Temperature





WATER HEATER

Water Management, Saving Energy, Human Pleasure, Safety

FITUR	
Data Aquisition Yes	Yes
Control	On/off, Proportion, PID
Automation Action	Yes
Monitor	Yes
Alert	On the spot/sms/email
Interface	PC/Remote
Connection	Wired/Wireless

PARAMETER

- Temperature
- Flow Rate
- Pressure



FITUR	
Data Aquisition Yes	Yes
Control	On/off
Automation Action	Yes
Monitor	Yes
Alert	On the spot/sms/email
Interface	PC/Remote
Connection	Wired/Wireless

- Vibrator
- Speed
- Motor Temperature Chamber Temp. (ELevator Only)
- O2 Chamber (Elevator Only)





FITUR	
Data Aquisition Yes	Yes
Control	On/off
Automation Action	Yes
Monitor	Yes
Alert	On the spot/sms/email
Interface	PC/Remote
Connection	Wired/Wireless

Input Power

- Fuel: Flowrate (volumetic, mass-flow)
- Gas Energy (volumetric flow, mass flow, fluid pressure)

Output Power

• Power: Electricity

Status

• Operating/non-operating



FITUR	
Data Aquisition Yes	Yes
Control	On/off, PID
Automation Action	Yes
Monitor	Yes
Alert	On the spot/sms/email
Interface	PC/Remote
Connection	Wired/Wireless

- Temperature
- Humidity





FITUR	
Data Aquisition Yes	Yes
Control	On/off
Automation Action	Yes
Monitor	Yes
Alert	On the spot/sms/email
Interface	PC/Remote
Connection	Wired/Wireless

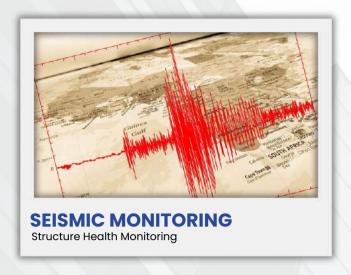
- LNG
- Flamable Gas
- LPG
- Toxic Gas



FITUR	
Data Aquisition Yes	Yes
Control	On/off
Automation Action	Yes
Monitor	Yes
Alert	On the spot/sms/email
Interface	PC/Remote
Connection	Wired/Wireless

- Seismic Monitoring
- Settlement Monitoring Wind Monitoring
- Crack Monitoring
- Others





FITUR	
Data Aquisition Yes	Yes
Control	-
Automation Action	-
Monitor	Yes
Alert	On the spot/sms/email
Interface	PC/Remote
Connection	Wired/Wireless

- Seismic Strong Ground Motion Measure
- Ambient Vibration
- Operational modal Analysis



FITUR	
Data Aquisition Yes	Yes
Control	-
Automation Action	-
Monitor	Yes
Alert	On the spot/sms/email
Interface	PC/Remote
Connection	Wired/Wireless

- Settlement measure and monitoring for building, pile, tower, etc
- Capable of detecting minor static changes in angle
- 0.001° Resolution
- ±15 ±30 Range
- Excellent stability over temperature and time





FITUR	
Data Aquisition Yes	Yes
Control	-
Automation Action	-
Monitor	Yes
Alert	On the spot/sms/email
Interface	PC/Remote
Connection	Wired/Wireless

- Capable of detecting minor
 100 milion motion lifetimes increases/decreases in eciting crack • Infinite resolution
- 50 700 mm measuring size <0.01 mm repeatibility
- ± 0.05% linearity



FITUR	
Data Aquisition Yes	Yes
Control	- ////
Automation Action	- ()
Monitor	Yes
Alert	On the spot/sms/email
Interface	PC/Remote
Connection	Wired/Wireless

- Wind direction
- Wind flow
- 0.7 ... 50 m/s measurement range
- Wind speed scale 0 ... 60 m/s
- 0 ... 360 degree measurement range





FITUR	
Data Aquisition Yes	Yes
Control	-
Automation Action	-
Monitor	Yes
Alert	On the spot/sms/email
Interface	PC/Remote
Connection	Wired/Wireless

- Cable Tension
- Stress-strain,
- Dynamic / static load Surface temperature, etc



FITUR	
Data Aquisition Yes	Yes
Control	On/off, PID
Automation Action	- () ()
Monitor	Yes
Alert	On the spot/sms/email
Interface	PC/Remote
Connection	Wired/Wireless

- Flame
- Heat
- Smoke



CCTV

Building management memantau CCTV untuk mencegah kejahatan, mengidentifikasi ancaman, dan merespons insiden dengan cepat. Mereka mengelola penyimpanan rekaman, berkoordinasi dengan pihak keamanan, dan melakukan perawatan rutin perangkat untuk memastikan sistem berjalan optimal dan bangunan tetap aman.



ACCES DOOR

Building management mengelola akses pintu untuk keamanan dan efisiensi dengan mengontrol izin masuk, memantau akses, melakukan pemeliharaan rutin, serta menyiapkan prosedur darurat. Mereka juga mengintegrasikan sistem akses dengan CCTV dan alarm, serta melatih pengguna tentang sistem ini.



AUDIO PHONE

Building management menggunakan sistem audio phone untuk komunikasi dan keamanan. Mereka mengelola pemasangan, pemeliharaan, dan penggunaan interkom, termasuk verifikasi pengunjung, komunikasi darurat, dan pengumuman. Integrasi dengan sistem keamanan lainnya juga dilakukan untuk meningkatkan efektivitas.

PROJECT EXPERIENCE







Warehouse Temperature Monitoring System Cooling PT Jasa Angkasa Semesta



Analysis of Production Machine Vibration Effects on Buildings





Structural Health Monitoring System Suramadu

TESTIMONIALS



We are satisfied with PT Taharica's know-how and knowledge transfer to us, the engineer service in after sales service is very responsive. The monitoring tools designed by PT Taharica has been tried at PLN Sulawesi and PLN Papua ans has proven to be rellable because it provides guidlines for solving, which will then be developed for other generating Steam Power Plants within PLN.

(Tedjo Leono, Senior Specialist I, PT PLN PUSHARLIS BANDUNG)



PT TAHARICA's work team is reliable. Very good in implementation in the field. In general we are satisfied with the service!

(Andre, Engineering Senior - Chevron HSE)



The undulating monitoring tool designed by PT Taharica is very useful for us and mining companies in general because it makes tire life longer because early road damage is detected, fuel consumtion will be reduced, productivity will increase.

(Dwi Setyono, Deputy Project Manager of PAMA ADARO)





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