



NORDATEC
SMART ENERGY

DUBAI UAE

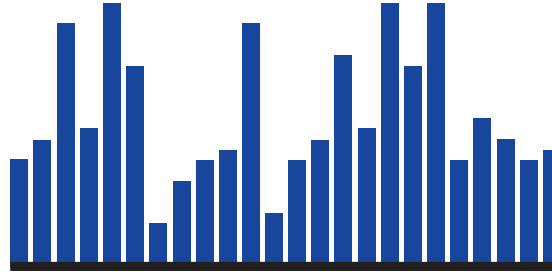
Defective Units

Room

Corridor 1 - L1 - B5

APM-3200 Asset and performance manager

Asset and Performance manager for fleet of AC- and FCU- units.
Compatible with Coil Managers LM-2000 and LM-2100.



Consumption monitoring

Top 10 Consumers

Room	Consumption (kW)
Room Kitchen - L5 - B2	23
Garage - L5 - B2	20
Corridor - L1 - B5	17,6
Lab - L52 - B31	17
Lab - L52 - B31	15

ISSUES INCLUDE

- difficulty in managing or measuring AC-unit / FCU settings and reached temperature levels.
- difficulty to evaluate the actual performance of the AC-units.
- difficulty in manage/measure the electrical cost.

This leads to increased operating costs, discomfort and inadequate reactive maintenance for the site managers.
APM-3200 is an online Asset and Performance Manager for large fleets of AC or FCU units.
It is coupled to compatible AC Managers LM-2000 and LM-2100.

APM-3200 BRINGS THE FOLLOWING IMPROVEMENTS

Reliable AC-unit monitoring

Any performance issue in AC-unit will be noticed early, which gives a chance to take preventive measures before failure of the AC unit.
This results in improved comfort for users and better reactivity / forecast for maintenance team.

Reduced operating costs

THE AC ELECTRICAL CONSUMPTION IS OPTIMIZED THROUGH SEVERAL FUNCTIONALITIES :

- **temperature limiter** : a base value prevents misuse and ensure a fair use among all users.
- **use profile** : the temperature setting according to profile / location ensures that AC - units are used only when the location is used.
- **performance monitoring** : AC units are monitored for performance. This ensure that low-performing units are detected early.
- **improved compressor management** : Savings conservatively reach 20% and payback is less than 2 years.

Predictive maintenance

APM 3200 collects the actual usage of AC-unit as well as information on AC-unit performance. Web GUI can recommend predictive maintenance operations.

INDICATORS AND RELATED BENEFITS INCLUDE :

- **electrical over-consumption** notification before it impacts the bill.
- **electrical abnormal consumption**, indicating a probable fault in the compressor, contactor or capacitor.
- **temperatures in abnormal range**, indicating a fault, poor settings or fan issues.

Preventive maintenance

BASED ON USAGE, APM 3200 CAN RECOMMEND PREVENTIVE ACTIONS SUCH AS :

- filter or coil cleaning.
- anti-fungus disinfection.
- compressor oil change, drain checks, fan checks.

Performance monitoring

THE CONTINUOUS PERFORMANCE MONITORING OF EACH INDIVIDUAL AC-UNIT ENSURES

- health check of the AC unit.
- early detection of poorly performing AC-Units.
- triggering maintenance action without end-user intervention.
- detection of anomalies in the consumption profile.

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