ERCAN TEKNIK - RTU

Roof Top Unit Management

Contemporary Roof Top Automation
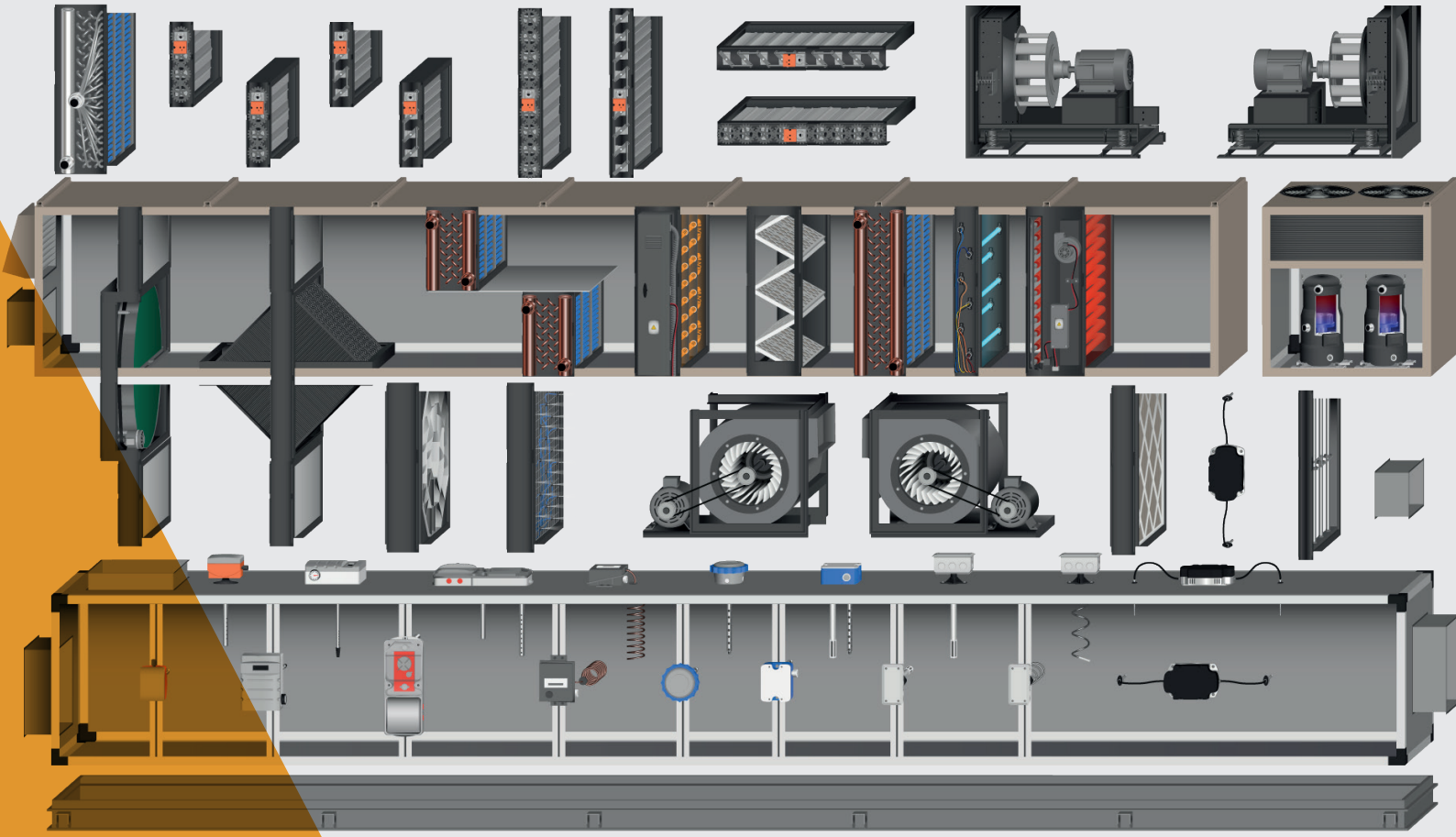
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Advanced RTU Functions

Heating / Cooling Management

Heating

- Proportional, step, floating or On/Off control,
- Hot water resource,
- Steam resource,
- Gas firing resource,
- Electrical heater resource,
- DX resource (HP),
- Secondary heating resource with same options.

Cooling

- DX resource,
- Evaporator load optimization,
- Automatic superheating management,
- Auto-update of the SuperHeating Set according to the cooling performance,
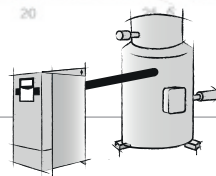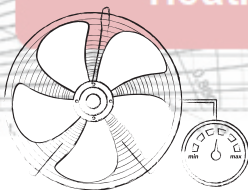
DOKUNMATIK
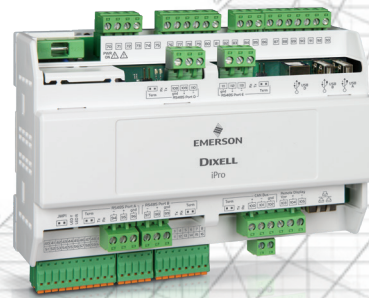
Condensing Unit

- 2 independent cooling circuit,
- Common or independent condensation circuit,
- 3 compressors available per each circuit,
- AC / DC inverter option for compressors,
- Step condenser fan management,
- Proportional condenser fan speed management,
- Compressor rotation,
- Mechanical & electrical safeties of compressors,
- Advanced EEV management.

Humidity Management

Humidification

- Proportional, step or On/Off control,
- Adyabatic Panel,
- Adyabatic Panel + Pump,
- Adyabatic Nozzle,
- Isothermal steam option.

Dehumidification

- Independent or internal cooling resource management option
- Proportional, step, floating or On/Off control,
- DX resource,
- Ice water resource,
- Desiccant Rotor resource
- Secondary Heating Resource Management.

Mixing Chamber Managenet

Air Quality / Filters

- VOC measurement,
- CO_2 measurement,
- Proportional, floating or On/Off control,
- %100 fresh air mode,
- Automatik damper management,
- Fire mode management,
- Return air Filter,
- Supply air Filter,
- Fresh air Filter,
- Expultion air Filter,
- 2 additional filter management.

Heat Recovery / Dampers

- Fixed Plate Heat Exchanger management,
- Rotary Thermal Wheel management,
- Management of Mixing Chambers with 2-3-4 dampers,
- Return air Damper,
- Supply air Damper,
- HR Damper,
- Expultion air Damperi,
- Fresh air Damper,
- Mixing Damper.
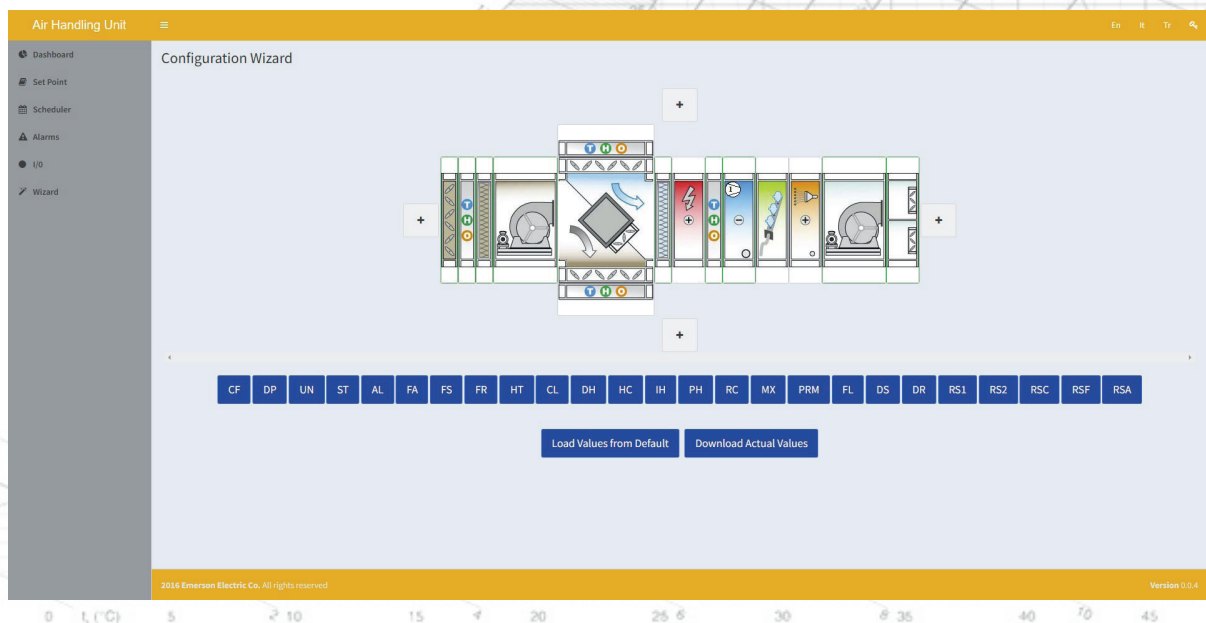
Return / Supply Fan Management

Return Fan

- Proportional, step, floating or On/Off control,
- Single, Double & Double Relief Fan management,
- Relief Fan rotation,
- Automatic Relief Fan damper management,
- Differential Pressure Switch based management,
- Differential Pressure Transmitteri based management,
- Flow Rate based proportional management,
- Return Fan management based on function to the Supply Fan.

Supply Fan

- Proportional, step, floating or On/Off control,
- Single, Double & Double Relief Fan management,
- Relief Fan rotation,
- Automatic Relief Fan damper management,
- Differential Pressure Switch based management,
- Differential Pressure Transmitteri based management,
- Flow Rate based proportional management.

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Contemporary Communication Technologies

Embedded Web Server

Configuration Wizard

- Embedded Web Server,
- 3 login levels,
- Multiple language support,
- Easy setup via Ikons & Widgets,
- Auto parameter concealment,
- Online quick Set-Up.

Live Alarm Management

- Live monitoring of all Alarms,
- Alarm deletion through authorization,
- Alarm logging,
- Exporting of Alarm logs,
- Remote parameter loading.

Online Scheduler

- Unique CALENDER creation,
- Defining of 7 programs,
- Scheduler based Unit functions programming,
- Scheduler based Operation MOD selection,
- Creation of time bands,

I/O List

- Auto I/O list creation via Configuration Wizard,
- I/O overlapping notifications,
- Online visualization of the I/O List,
- Auto update of I/O list, following the changes made,
- Exporting of the I/O List.
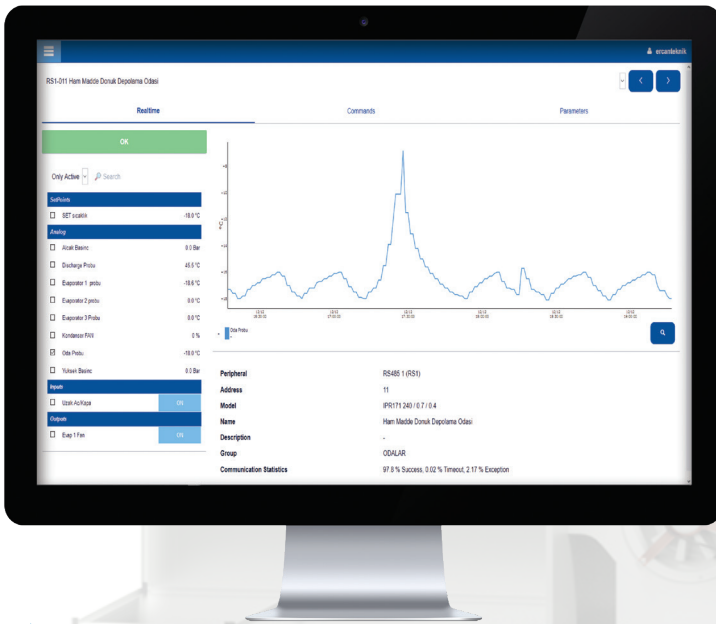
Live Dashboard

Live Monitoring Page

- Monitoring of all SET values,
- Ability to modify the SET values,
- Monitoring of Working MODE,
- Ability to modify the Working MODE,
- Live Monitoring of sensor values,
- Live Monitoring of all rersources,
- Live Monitoring of Regulation MODE,
- Ability to modify the Regulation MODE,
- Monitoring of I/O overlaps.

Additional Functions for Factory Level

- Full access to all Menus,
- Ability to modify every single Parameters remotely,
- Ability to send Parameter files remotely,
- Access to all alarms and ability to reset them if resettable,
- Access to all LOG files,
- LOG files management,
- Creation of new User / deletion of existing User.

Multiple Communication Support

Connection Technologies

- RS485 Serial port (Slave),
- RS485 Serial port (Master),
- Ethernet port,
- USB port (Log),
- USB port (configurable),
- Display port,
- CANBUS port,
- LAN port.

Supported Communication Technologies

- ModBus over Serial,
- ModBus over TCP-IP,
- TCP-IP,
- BACNET,
- FTP.

Energy Analysis & Monitoring (Separate Module)

Consumption Monitoring

- Monitoring of Electrical datas & logging
- Defining of the Max. thresholds
- Possibility to monitor all consumptions of individual devices,
- Treshold overrun notifications,
- Safety measures applied on high consumption
- Active-Reactive Energy, Cosφ, Current, Voltage, Freqancy, Power etc. read-outs.

Evaluation & Reporting

- Creation of comperative grafics based on daily, weekly, monthly or yearly data,
- Analysing the Network & reporting
- Analysis & Reporting of historical data (roughly around 1 year)
- Ability to grant investigation via multi-axis graphs,
- Detailed data filtering tools,
- Detection of high consumption periods & optimisation.

#teamercan

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