



smart energy saving in warehouses

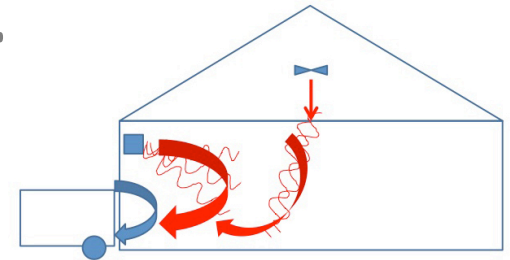




Opened industrial doors lead to a significant loss of energy

....

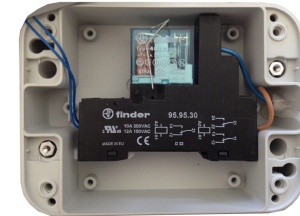
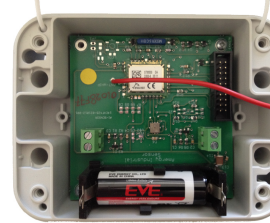
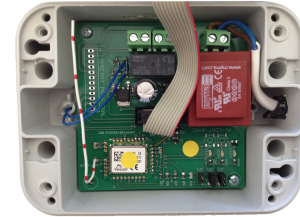
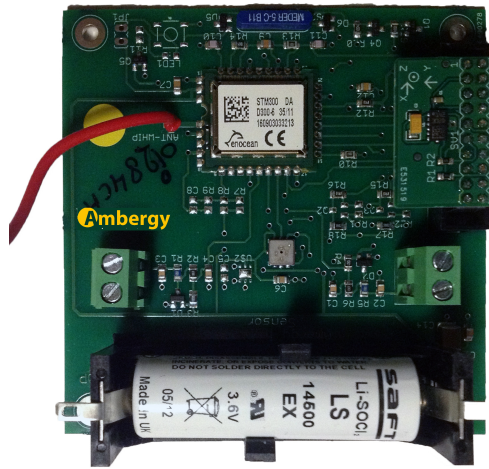
by airflow and draught.





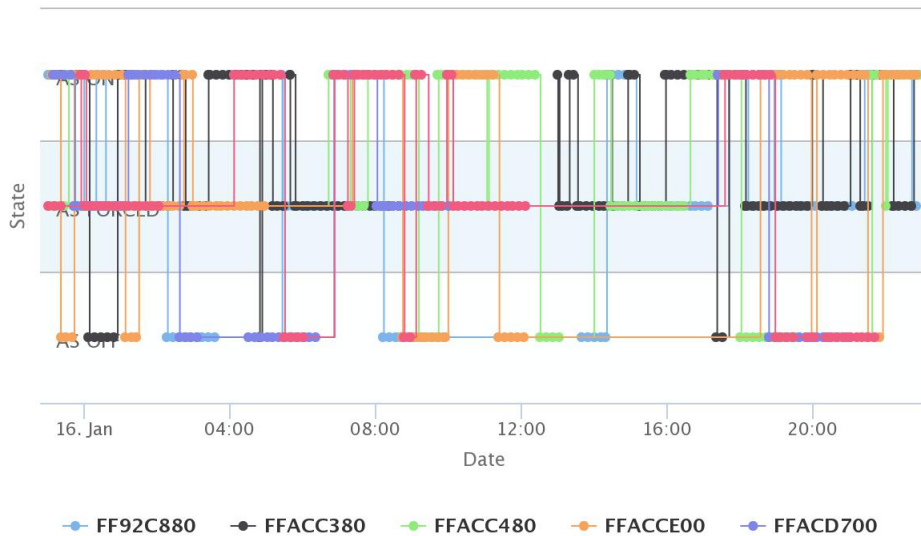
Amberg prevents
unnecessary energy
loss due to opened
doors...

*and encourages
behavioral change
among employees*



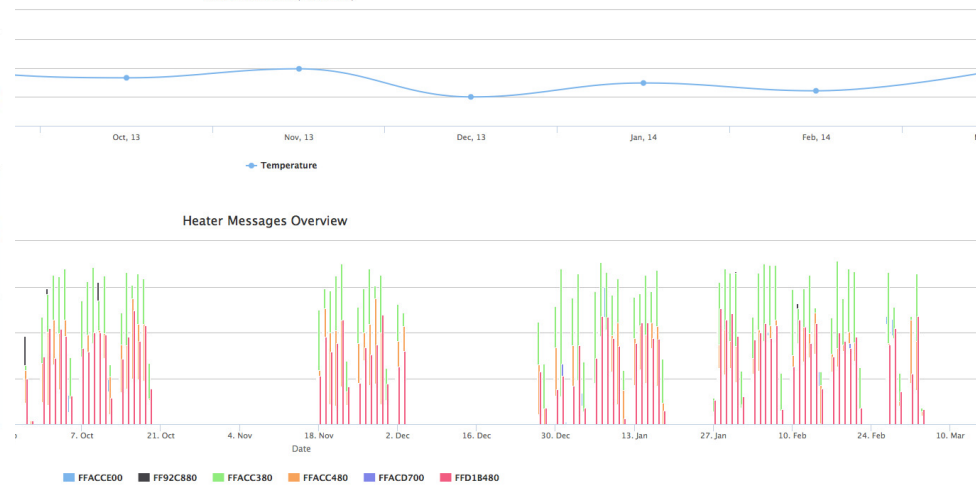
Sensors on doors (wireless)
Controllers at heaters (wireless)
User interface for employees
Data collection

Time Heater State

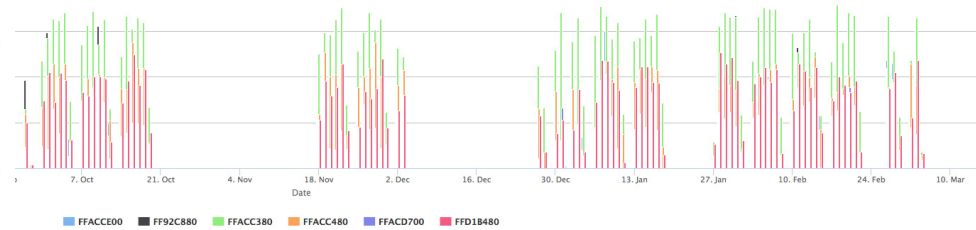


Monthly Average Temperature

Based on sensor data. (Latest Data.)



Heater Messages Overview



45,935
Amount Heater Records

Data-analysis
energy and usage monitoring
process optimisation
scheduling of docks
facility management



6,000 m²



500 m²

ALPHATRON

1,100 m²



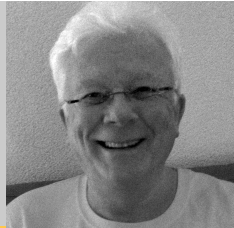
Delft University of Technology

4 years of field test
1 year of research at TU Delft



Benefits

1. Energy savings
.... up to 28%
2. Plug & play
3. No structural facilities required
4. No permissions required
5. Changing behaviors



business development

Arjen Baan

product development

Marcel Vroom M.Sc

electronics development

Roland van Straten

energy & process consultancy

Renate van Drimmelen M.Sc

marketing communications

Anneke van Dijk B.BA

Start saving energy today!

Information and ordering
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