

The  
AutoLog<sup>®</sup>  
Family  
presents



**We've got it under control**  
Sophisticated Control Technology

**AutoLog<sup>®</sup> ControlMan Success Story**  
Remote monitoring of district heating system as Cloud Service



**FF-AUTOMATION**



# AutoLog® ControlMan – Wireless supervision as Cloud Service

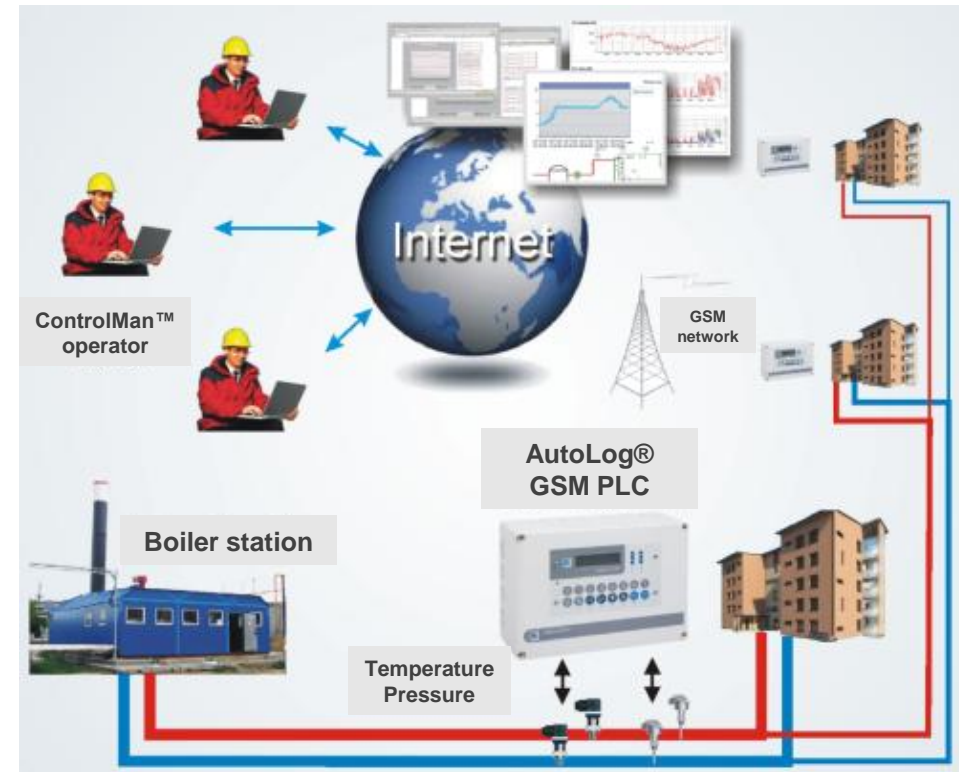
## PROJECT DESCRIPTION:

### PROBLEM:

The water pressure and the temperature difference decreases in the district heating system's treetop areas. The problem was that the boiler's inverter pump was adjusted without having any real measurement data from the distant treetop points. This caused that apartments didn't get enough heat or their heating was set on too high level, which led to excessive costs.

### SOLUTION:

On the different points along the heating pipeline AutoLog GSM-PLCs were installed. GSM-PLCs are taking temperature and pressure measurements and transferring these over GSM network to AutoLog ControlMan Internet server. By using normal Internet browser, operators can analyze changes at different points of the heating system. Now the heating can be adjusted precisely according to real measurements. If the measurements exceed defined alarm limits, ControlMan generates SMS alarm message to on duty service man's mobile.

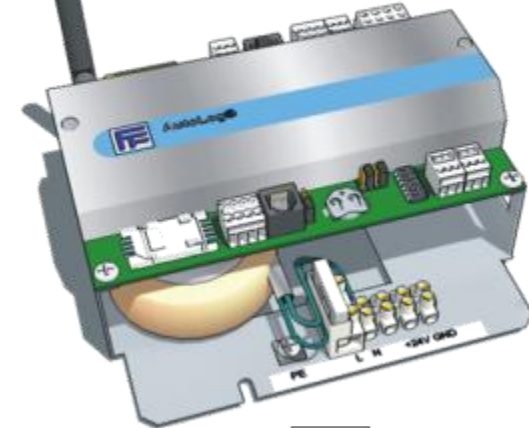
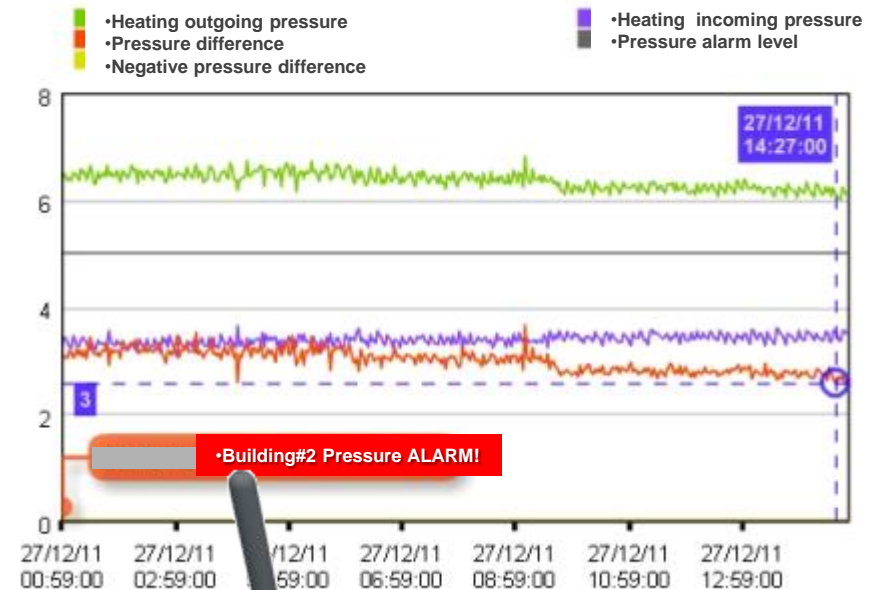




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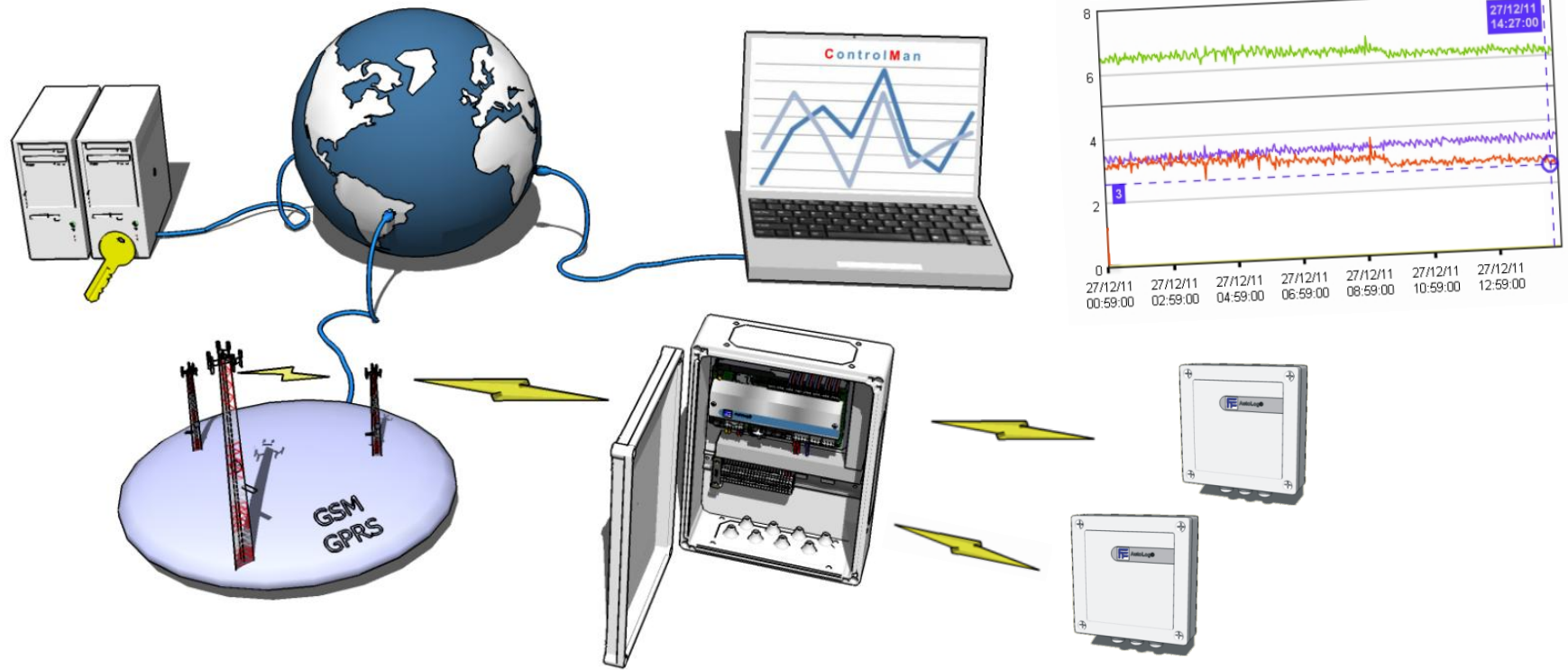
## BENEFITS:

- ✓ More accurate temperature control
- ✓ Increased living quality in apartments
- ✓ Energy saving
- ✓ Malfunctions are reported immediately with SMS messages and the cause can be analysed from the ControlMan views. Faster repair time - less costs.
- ✓ Better supervision
- ✓ Increased knowledge
- ✓ No need for own server PC or maintenance staff
- ✓ Uses own network connections – doesn't need to change the company's network settings or open any ports – No security risks
- ✓ Operates through normal web browser without any client software installations
- ✓ Allows many (tens of) simultaneous users to monitor the application from anywhere and anytime
- ✓ Low cost, long life span and highly scalable solution





# AutoLog® ControlMan – Wireless supervision as Cloud Service



## AutoLog® ControlMan

- Supervision as Cloud Service
- Just log in with Web browser!

## AutoLog® GSM-RTU

- Programmable Logic Controller
- Communicates via GSM network

## AutoLog® Wireless Sensors

- Optional: GSM-RTU has own I/O
- Uses free 868MHz frequency in EU
- Modbus interface, expandable network



# AutoLog® ControlMan – Wireless supervision as Cloud Service

## AutoLog® ControlMan:

Reliable, high quality product, designed and manufactured in Finland.

Thousands of operating remote monitoring and controlling solutions. For example for streetlight systems, pumping stations, groundwater measuring stations, factory's chemical supervisions, level measuring, cathodic protection, OEMs etc.

FF-Automation is established in 1976. AutoLog product development has continued over 35 years.

FF-Automation delivers complete solutions for remote supervision and control, together with our partners.

Call, send e-mail or come to visit! We can arrange free presentation and cost calculation of our system!

[www.ff-automation.com](http://www.ff-automation.com)



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**FF-AUTOMATION**