DISTRICT HEATING AND COOLING

Applicable Area : Facilities / Machinery

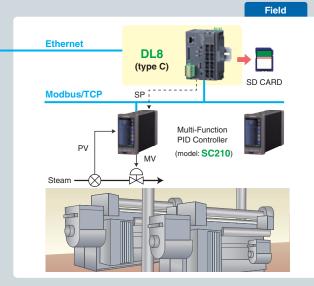**Application   : Data acquisition for district heating and cooling**

■ The DL8 is used for monitoring and data logging of the Multi-Function PID Controller that controls the temperatures of district heating and cooling.

■ Multi-Function PID Controller data including the process variable (PV), PID control loop set point (SP) and manipulated variable (MV) for temperatures, etc. are logged by the DL8 unit via Modbus/TCP communication.

■ Connect to a Wi-Fi access point from a tablet and open the Web browser view of the DL8 unit to display the current value or trend graphs and also verify the PID control status.

■ The set point (SP) of the control loop can be changed remotely via the DL8 Web browser.

■ If an abnormality occurs in facility operations, retreive the SD card from the DL8 unit to conduct a detailed analysis of the recorded/stored trend data.

What's the focus?

● The DL8 unit and multiple Multi-Function PID Controller units can be simply connected via LAN cables using less wiring.

● Modbus/TCP communication can be used to retrieve selected data from the Multi-Function PID Controller.

● By using Wi-Fi, a tablet can be used instead of checking the screen of the Multi-Function PID Controller at the control panel.

● By recording data to the SD card of the DL8 unit, operating conditions or abnormal data can be checked at a later date.

● When the SD card reaches capacity, the oldest data is automatically deleted, preventing the loss of the most recent data [1].

Facilities Manager

Wi-Fi Access Point

Tablet

Wi-Fi

Web Monitoring

TREND | DATA

Field

Ethernet

DL8 (type C)

SD CARD

Modbus/TCP   SP

PV

MV

Steam

Multi-Function PID Controller (model: **SC210**)

*1 Automatic deletion function has been added from DL8 Series firmware version 1.4.x and later.

• Web browsed views are images that are subject to change without notice.   • In order to effect the applications on this page, static IP or dynamic DNS is required.
• M-System Company does not provide smart phones and/or telecommunication services.