Data Points

Supervisory control and data acquisition (SCADA) system typically consist of data elements called points (or tags), where each point represents a single variable measured or controlled by the system.

The HAI dataset includes the critical data points to control and monitor at a centralized place. The HAIEnd dataset, however, internal points used in DCS logics to control the boiler process.

HAI DATA POINTS As the HAI version becomes more recent, the number of data points are increases from 59 to 86. All data points of each version are tabulated below. Range HAI No Name Unit Description 22.04 Min Max 20.07 21.03 23.05 1

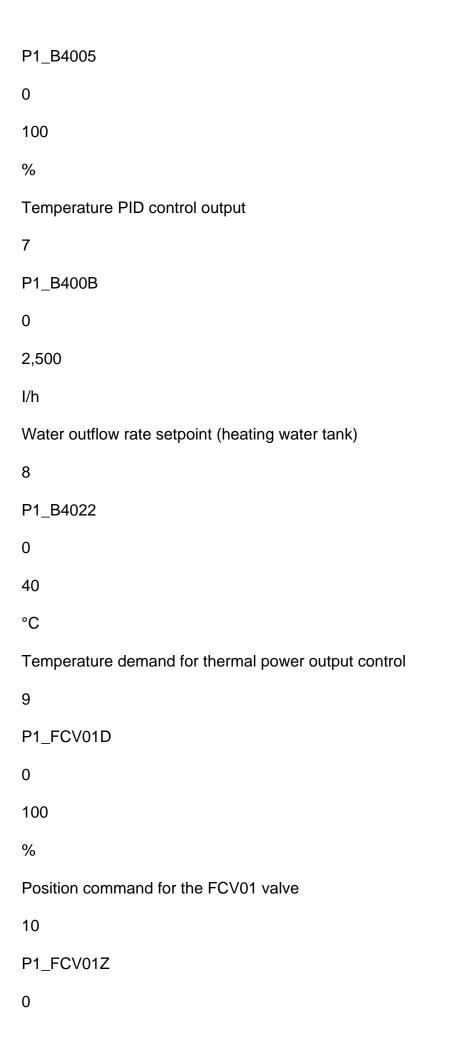
P1_B2004

0

10

bar

Heat-exchanger outlet pressure setpoint
2
P1_B2016
0
10
bar
Pressure demand for thermal power output control
3
P1 B3004
0
720
mm
Water level setpoint (return water tank)
4
P1_B3005
0
2,500
I/h
Discharge flowrate setpoint (return water tank)
5
5 P1_B4002
P1_B4002
P1_B4002 0
P1_B4002 0 100



100
%
Current position of the FCV01 valve
11
P1_FCV02D
0
100
%
Position command for the FCV02 valve
12
P1_FCV02Z
0
100
%
Current position of the FCV02 valve
13
P1_FCV03D
0
100
%
Position command for the FCV03 valve
14
P1_FCV03Z
0
0 100

Current position of the FCV03 valve
15
P1_FT01
0
2,500
mmH2O
Measured flowrate of the return water tank
16
P1_FT01Z
0
3,190
I/h
Water inflow rate converted from P1 FT01
17
P1_FT02
0
2,500
mmH2O
Measured flowrate of heating water tank
18
P1_FT02Z
0
3,190
I/h
Water outflow rate conversion from P1_FT02
19

