

Block Q5P

The Q5P block implements by a five-parameter model typically used for heating- and cooling demand calculations of buildings.



Q5P

Name	Q5P
Function	bs0029
Inputs	1
Outputs	1
Parameters	5
Strings	0
Group	S

Inputs

- 1 Ambient temperature T_a / °C

Outputs

- 1 Heating or cooling demand Q or / kWh
- 2 Heating (+1), or base load (0), or cooling (−1) indicator

Parameters

- 1 Base load Q_b / kWh
- 2 Heating change-point temperature T_h / °C
- 3 Heating slope α_h / kWh K^{−1} (usually negative)
- 4 Cooling change-point temperature T_c / °C
- 5 Cooling slope α_c / kWh K^{−1} (usually positive)

Strings

None
