

Block Q4PC

The Q4PC block implements a four-parameter model typically used for cooling demand calculations of buildings.



Q4PC

Name	Q4PC
Function	bs0030
Inputs	1
Outputs	1
Parameters	4
Strings	0
Group	S

Inputs

- | | |
|---|--------------------------------|
| 1 | Ambient temperature T_a / °C |
|---|--------------------------------|

Outputs

- | | |
|---|----------------------------|
| 1 | Cooling demand Q_c / kWh |
|---|----------------------------|

Parameters

- | | |
|---|---|
| 1 | Cooling base load Q_{cb} / kWh |
| 2 | Cooling change-point temperature T_c / °C |
| 3 | Cooling slope α_c / kWh K ⁻¹ (usually negative) |
| 4 | Baseload slope α_{cb} / kWh K ⁻¹ (usually negative) |

Strings

None
