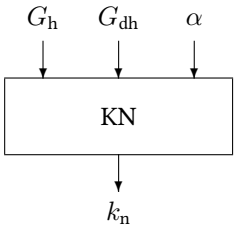
Block KN

The KN block calculates the nebulosity index.





Name	KN
Function	em0030
Inputs	3
Outputs	1
Parameters	0
Strings	0
Group	S

Inputs

1	Global radiation horizontal / $\mathrm{W\,m^{-2}}$
2	Diffuse radiation horizontal / $\mathrm{W\,m^{-2}}$
3	Elevation / °

Outputs

1	Nebulosity index k_n

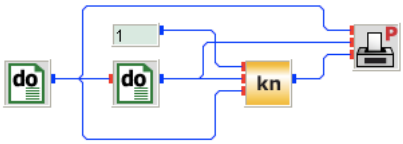
Parameters

None

Strings

None

kn.vseit



Two nested DO blocks vary the elevation of the Sun between zero and 90 degrees in steps of ten (outer DO block) and a normalised diffuse ratiation between zero and one. The global irradiance is normalised to one, too. The KN calculates the nebulosity indices, which are displayed by a PLOTP block.

