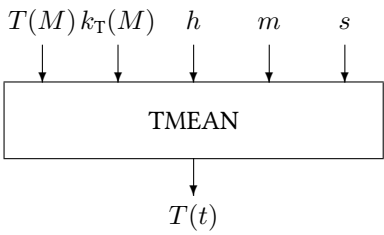


Block TMEAN

The TMEAN block returns the ambient temperature at a given real solar time for a mean monthly ambient temperature value based on the Erbs, Klein, Beckman correlation.



Name	TMEAN
Function	em0014
Inputs	3 ... [5]
Outputs	1
Parameters	0
Strings	0
Group	S

Inputs

- 1 Monthly mean value $T(M)$ of ambient temperature / °C
- 2 Monthly mean value k_T of clearness index
- 3 Hour h
- 4 Minute m
- 5 Second s

Outputs

- 1 Mean ambient temperature $\bar{T}$ / °C

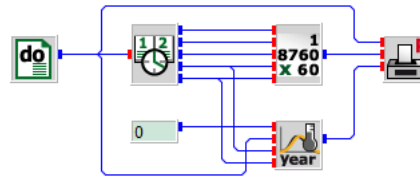
Parameters

None

Strings

None

tmean.vseit



A **DO** block varies the monthly mean clearness index between zero and one in steps of 0.1. This signal is used by the **PLOTP** block as curve parameter.

A **CLOCK** block is used to run through the first of January 2010 in steps of one minute. The mean ambient temperature is assumed to be zero degrees Celsius. The **TMEAN** block calculates the mean daily temperature profile which is displayed by a **PLOTP** block which uses the **MOY** block as x -coordinate.

