

# Amplifier

## Input Parameters

- setAmplification
- setNoiseAmplitude

## Functional Description

This block accepts one real signal and outputs one real signal built from multiplying the input signals by a predetermined value. This block also adds random gaussian distributed noise with a user defined amplitude. The multiplying factor and noise amplitude are defined by the values of *Amplification* and *NoiseAmplitude* respectively.

## Input Signals

**Number:** 1

**Type:** Real signal (ContinuousTimeContinuousAmplitude)

## Output Signals

**Number:** 1

**Type:** Real signal (ContinuousTimeContinuousAmplitude)