

# ADC Class

- AnalogIn Class
  - `#include <AnalogIn.h>` - already included with `mbed.h`

## Public Member Functions

**AnalogIn** (const **PinMap** &pinmap, float vref=MBED\_CONF\_TARGET\_DEFAULT\_ADC\_VREF)

Create an **AnalogIn**, connected to the specified pin. [More...](#)

**AnalogIn** (PinName pin, float vref=MBED\_CONF\_TARGET\_DEFAULT\_ADC\_VREF)

Create an **AnalogIn**, connected to the specified pin. [More...](#)

float **read** ()

Read the input voltage, represented as a float in the range [0.0, 1.0]. [More...](#)

unsigned short **read\_u16** ()

Read the input voltage, represented as an unsigned short in the range [0x0, 0xFFFF]. [More...](#)

float **read\_voltage** ()

Read the input voltage in volts. [More...](#)

void **set\_reference\_voltage** (float vref)

Sets this **AnalogIn** instance's reference voltage. [More...](#)

float **get\_reference\_voltage** () const

Gets this **AnalogIn** instance's reference voltage. [More...](#)

**operator float** ()

An operator shorthand for **read()** [More...](#)