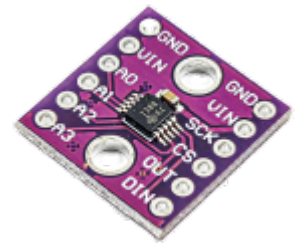


# LamaPLC: Texas Instruments ADCs: Delta-sigma multi-channel Analog Converters with SPI communication

Texas Instruments' ADCs are all delta-sigma converters that primarily differ in resolution, interface type, sample rate, and integrated features such as input channels and programmable gain amplifiers (PGAs). The ADS111x series is a 16-bit, I2C-compatible device, while the ADS12xx series is typically a 24-bit, SPI-compatible device with more advanced features for high-precision applications such as weighing scales and industrial process control.

## ADS111x Series (16-bit, I<sup>2</sup>C)

The Texas Instruments ADS111x series is a set of 16-bit-precision ADCs designed for low-power, space-constrained sensor measurement tasks. Key features include a broad supply-voltage range (2.0V to 5.5V), low current consumption (about 150µA in continuous operation), and built-in components such as a low-drift voltage reference and an oscillator.



### ADS111x General Specifications

- **Resolution:** 16 bits
- **Supply Voltage Range:** 2.0 V to 5.5 V
- **Low Current Consumption:** Typically 150 µA in continuous-conversion mode
- **Internal Components:** All devices include a low-drift voltage reference and an internal oscillator.
- **Operating Temperature Range:** -40°C to +125°C

Model	Interface	Channels (SE/Diff)	PGA	Comparator	Max Data Rate (SPS)	Unique Features
<b>ADS1110</b>	I <sup>2</sup> C	1 Diff	Yes (Gains up to 8)	No	240	Continuously self-calibrating
<b>ADS1112</b>	I <sup>2</sup> C	1 SE or Diff	Yes	No	240	(Similar to ADS1113/4/5 in core, but specific variant details are sparse)
<b>ADS1113</b>	I <sup>2</sup> C	1 SE or Diff	No	No	86	Basic model, minimal features
<b>ADS1114</b>	I <sup>2</sup> C	1 SE or Diff	Yes	Yes	860	Includes PGA and comparator
<b>ADS1115</b>	I <sup>2</sup> C	4 SE or 2 Diff	Yes	Yes	860	Input MUX for multiple channels
<b>ADS1118</b>	SPI	4 SE or 2 Diff	Yes	No	860	Integrated temperature sensor

Model	Interface	Channels (SE/Diff)	PGA	Comparator	Max Data Rate (SPS)	Unique Features
<b>ADS1119</b>	I <sup>2</sup> C	4 SE or 2 Diff	Yes (Gains 1 or 4)	No	1000	Single-cycle settling filter at 20 SPS (for 50/60Hz rej.)

## ADS1118 Pinout

Pin	Name	Type	Description
1	SCLK	Digital Input	SPI serial clock
2	CS	Digital Input	Chip select; active low
3	GND	Supply	Ground
4	AIN0	Analog Input	Analog input channel 0
5	AIN1	Analog Input	Analog input channel 1
6	AIN2	Analog Input	Analog input channel 2
7	AIN3	Analog Input	Analog input channel 3
8	VDD	Supply	Power supply (2V to 5.5V)
9	DIN	Digital Input	SPI serial data input (MOSI)
10	DOUT/DRDY	Digital Output	SPI serial data output / Data-ready (MISO)

### Key Pin Notes

- **DOUT/DRDY:** This pin serves a dual purpose. It provides serial data output and serves as a data-ready indicator, pulling low when a new conversion result is ready. An internal pull-up resistor can be enabled on this pin via software.
- **Analog Inputs (AIN0-AIN3):** These pins can be configured as four single-ended inputs (measured against GND) or two differential pairs (AIN0-AIN1 and AIN2-AIN3).
- **Input Limits:** Voltages on any analog input pin must remain between GND - 0.3V and VDD + 0.3V to prevent damage to the internal ESD diodes.

## Arduino & ADS1118

To interface the ADS1118 16-bit ADC with an Arduino, the most common approach is to use the **ADS1118 library** by denkitronik.

### Wiring Diagram

The ADS1118 communicates via SPI. Connect it to your Arduino as follows:

ADS1118 Pin	Arduino Pin (Uno/Nano)
VCC	3.3V or 5V
GND	GND
DIN (MOSI)	Pin 11
DOUT (MISO)	Pin 12
SCLK	Pin 13
CS	Pin 10 (or any digital pin)

## Example Arduino Code

This basic example initializes the ADC and reads the voltage from input AIN0 and the internal temperature sensor.

```
#include <SPI.h>
#include <ADS1118.h>

// Define the Chip Select (CS) pin
#define CS_PIN 10

ADS1118 ads1118(CS_PIN);

void setup() {
  Serial.begin(115200);

  // Initialize ADS1118 with default settings
  ads1118.begin();

  // Optional: Set sampling rate (e.g., 128 SPS)
  ads1118.setSamplingRate(ads1118.RATE_128SPS);
}

void loop() {
  // Read voltage from Single-Ended Input 0 (AIN0)
  // Returns value in millivolts (double)
  double voltage = ads1118.getMilliVolts(ads1118.AIN_0);

  // Read internal chip temperature
  double temp = ads1118.getTemperature();

  Serial.print("Voltage AIN0: ");
  Serial.print(voltage);
  Serial.print(" mV | ");

  Serial.print("Internal Temp: ");
  Serial.print(temp);
  Serial.println(" C");

  delay(1000);
}
```

## Key Library Methods

- `ads1118.begin()`: Initializes the SPI communication.
- `getMilliVolts(input)`: Takes the ADC reading and converts it directly to mV. Inputs can be single-ended (AIN\_0 to AIN\_3) or differential (DIFF\_0\_1, DIFF\_2\_3, etc.).
- `getTemperature()`: Retrieves the temperature from the ADS1118's internal sensor.
- `setSamplingRate()`: Adjusts speed from 8 SPS up to 860 SPS.



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## ADS12xx Series (Generally 24-bit, SPI)

The Texas Instruments **ADS12xx series** includes high-resolution, 24-bit delta-sigma ADCs designed mainly for precise measurement tasks such as weigh scales, strain gauges, and industrial process control. They come with built-in features such as onboard PGAs, internal references, and temperature sensors.

### ADS12xx Series Specifications

Model	Resolution (bits)	Interface	Max Data Rate (SPS)	Channels (SE/Diff)	PGA	Key Applications/Features
<b>ADS1220</b>	24	SPI	2k	4 SE or 2 Diff	Yes (up to G=128)	RTDs, thermocouples, integrated temp sensor, IDACs
<b>ADS1232</b>	24	Pin-driven Serial	80	2 Diff	Yes (up to G=128)	Weigh scales, strain gauges, simple control (no registers)
<b>ADS1234</b>	24	Pin-driven Serial	80	4 Diff	Yes (up to G=128)	Weigh scales, strain gauges, simple control (no registers)
<b>ADS1256</b>	24 (23 noise-free)	SPI	30k	8 SE or 4 Diff	Yes (up to G=64)	High speed, chopper-stabilized buffer, self/system calibration
<b>ADS1261</b>	24	SPI	38.4k	Multiple	Yes (up to G=32)	Low-noise, low-drift, IDACs for sensor excitation
<b>ADS1263</b>	24	SPI	38.4k	Multiple	Yes (up to G=32)	Same as ADS1261, but with an auxiliary 24-bit ADC

### Key Takeaways

- **The ADS1232 and ADS1234** are unique in that they are controlled via simple pin-driven commands, eliminating the need for complex register programming. They are specifically designed as a complete front-end solution for bridge sensors, such as weigh scales.
- **The ADS1256** offers a significantly higher maximum data rate of 30 kSPS compared to the 80 SPS of the ADS123x family, making it suitable for faster data acquisition while still maintaining high resolution.
- **The ADS1220, ADS1261, and ADS1263** include highly integrated features such as internal temperature sensors and programmable current sources (IDACs), simplifying designs for applications such as RTD measurements.
- **The ADS1263** is the most feature-rich, integrating a main 24-bit ADC and an additional auxiliary 24-bit ADC channel for background measurements.

## ADS1220 Pinout

The ADS1220 is a 24-bit precision ADC. It uses an SPI-compatible interface and includes specific pins for dual-matched current sources (IDACs) and a low-side power switch.



Key pins include:

- **SPI interface pins** such as SCLK, CS (active low), DOUT/DRDY, and DIN.
- **Analog inputs** like AIN0 through AIN3.
- **Reference inputs** REFPO, REFNO, and the dual-function pins AIN0/REFP1 and AIN3/REFN1.
- **Supply pins** DVDD, DGND, AVDD, and AVSS.
- **The DRDY pin** indicates when new data is available.
- An **external clock input CLK** is also available.

For a detailed pinout, please refer to the [Olimex ADS1220 datasheet](#).

### Critical hardware notes include

- AIN0 and AIN3 serve as the external reference inputs REFP1/REFN1.
- The DRDY pin or DOUT can signal data readiness.
- The AIN3/REFN1 pin connects to an internal low-side switch.
- Decoupling capacitors are advised between AVDD/AVSS and DVDD/DGND

## Arduino & ADS1220

To use the ADS1220 with an Arduino, the **ADS1220\_WE** library by Wollewald or the **Protocentral ADS1220** library is the most common option. Both are available via the Arduino Library Manager.

### Wiring Diagram (Typical)

The ADS1220 uses the SPI protocol. Connect it to your Arduino (e.g., Uno) as follows:

ADS1220 Pin	Arduino Uno Pin	Description
<b>VDD</b>	5V or 3.3V	Power Supply
<b>GND</b>	GND	Ground
<b>SCLK</b>	D13	Serial Clock
<b>DOUT/DRDY</b>	D12	MISO (Data Out)
<b>DIN</b>	D11	MOSI (Data In)
<b>CS</b>	D7 (selectable)	Chip Select
<b>DRDY</b>	D6 (selectable)	Data Ready Indicator

## Basic Example Code

This example uses the **ADS1220\_WE** library to perform a simple differential measurement between AIN0 and AIN1.

```
#include <ADS1220_WE.h>
#include <SPI.h>

#define ADS1220_CS_PIN 7
#define ADS1220_DRDY_PIN 6

ADS1220_WE ads = ADS1220_WE(ADS1220_CS_PIN, ADS1220_DRDY_PIN);

void setup() {
  Serial.begin(9600);

  if (!ads.init()) {
    Serial.println("ADS1220 not connected!");
    while (1);
  }

  // Set to differential mode: AIN0 vs AIN1
  ads.setCompareChannels(ADS1220_MUX_0_1);

  // Set Gain (1, 2, 4, 8, 16, 32, 64, 128)
  ads.setGain(ADS1220_GAIN_1);

  // Optional: Set Data Rate (e.g., 20, 45, 90, 175, 330, 600, 1000 SPS)
  ads.setDataRate(ADS1220_DR_LVL_0); // 20 SPS (normal mode)
}

void loop() {
  // Read voltage in millivolts
  float voltage = ads.getVoltage_mV();

  Serial.print("Voltage AIN0-AIN1 (mV): ");
  Serial.println(voltage, 4);

  // Read internal temperature sensor
  float temp = ads.getTemperature();
  Serial.print("Internal Temp (°C): ");
  Serial.println(temp);

  delay(1000);
}
```

## Advanced Usage Notes

- **Temperature Compensation:** For thermocouples, you can use `ads.enableTemperatureSensor(true)` to read the ambient temperature for cold-junction compensation.

- **Data Ready:** The library handles the DRDY pin internally to ensure the ADC has finished its conversion before the Arduino attempts to read data.
- **High Resolution:** For raw 24-bit data (useful for weigh scales), use `ads.getRawData()` instead of voltage methods.

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• <a href="#">SSH1106/SSD1306 OLED Display with I<sup>2</sup>C communication</a>	2026/02/14 18:27	<a href="#">i2c</a> , <a href="#">oled</a> , <a href="#">display</a> , <a href="#">ssd1306</a> , <a href="#">sh1106</a> , <a href="#">ssh1106</a> , <a href="#">arduino</a> , <a href="#">cmos</a>

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