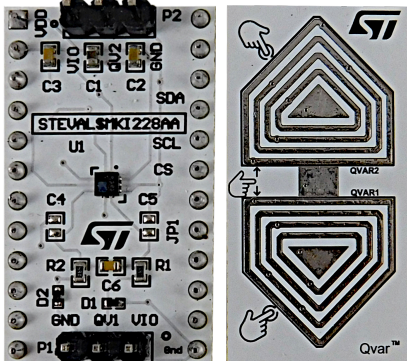


## Pressure sensor kit with Qvar functionality based on ILPS22QS



### Features

- User friendly [ILPS22QS](#) board
- Complete [ILPS22QS](#) pin-out for a standard DIL24 socket
- Fully compatible with the [STEVAL-MKI109V3](#) motherboard
- RoHS compliant

### Description

The [STEVAL-MKI228KA](#) evaluation kit consists of the [STEVAL-MKI228A](#) and the [STEVAL-MKE001A](#).

The [STEVAL-MKI228A](#) mounts the [ILPS22QS](#) pressure sensor with the Qvar electrostatic sensor and swipe electrode to make it compatible with the [STEVAL-MKI109V3](#). The [ILPS22QS](#) is soldered exactly at the board center.

The [STEVAL-MKE001AA](#) can be plugged into a standard DIL24 socket.

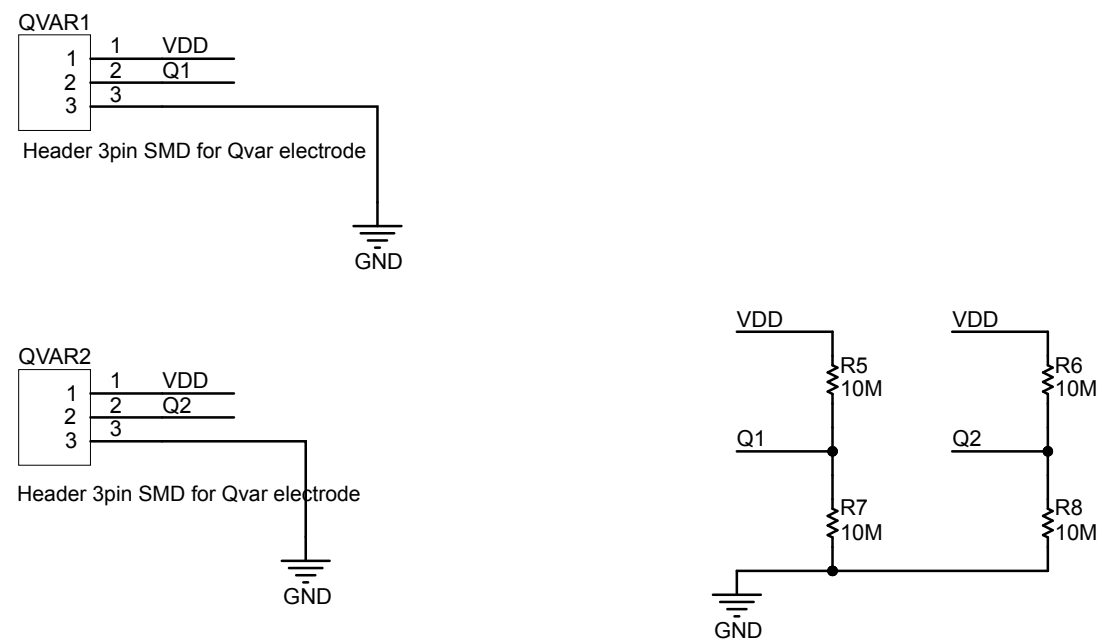
The kit provides the complete [ILPS22QS](#) pin-out and comes ready-to-use with the required decoupling capacitors on the VDD power supply line.

This adapter is supported by the [STEVAL-MKI109V3](#) motherboard, which includes a high-performance 32-bit microcontroller functioning as a bridge between the sensor and a PC, on which it is possible to use a downloadable graphical user interface ([Unico-GUI](#)), or dedicated software routines for customized applications.

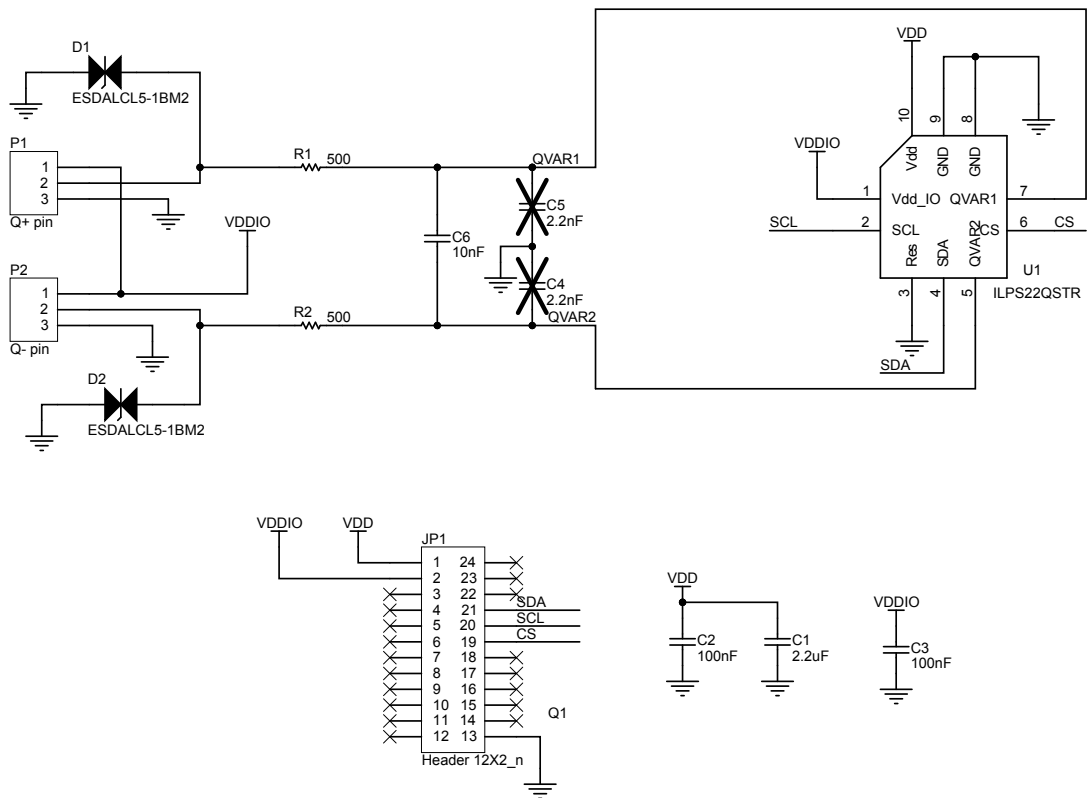
Product summary	
Pressure sensor kit with QVAR functionality based on <a href="#">ILPS22QS</a>	<a href="#">STEVAL-MKI228KA</a>
Dual full-scale, 1260 hPa and 4060 hPa, absolute digital output barometer with embedded Qvar electrostatic sensor	<a href="#">ILPS22QSTR</a>
MEMS adapter motherboard based on the <a href="#">STM32F401VE</a>	<a href="#">STEVAL-MKI109V3</a>
Motion MEMS and microphone MEMS expansion board for <a href="#">STM32 Nucleo</a>	<a href="#">X-NUCLEO-IKS02A1</a>
Applications	<a href="#">Gas Metering</a>

# 1 Schematic diagrams

Figure 1. STEVAL-MKI228KA circuit schematic (1 of 2)



**Figure 2. STEVAL-MKI228KA circuit schematic (2 of 2)**



## 2 Kit versions

**Table 1. STEVAL-MKI228KA kit versions**

Finished good	Schematic diagrams	Bill of materials
STEVAL\$MKI228KAA <sup>(1)</sup>	STEVAL\$MKI228KAA schematic diagrams	STEVAL\$MKI228KAA bill of materials

1. This code identifies the STEVAL-MKI228KA evaluation kit first version. The kit consists of a STEVAL-MKI228A whose version is identified by the code STEVAL\$MKI228AA and a STEVAL-MKE001AA whose version is identified by the code STEVAL\$MKE001AAA

## Revision history

**Table 2. Document revision history**

Date	Revision	Changes
30-Mar-2022	1	Initial release.

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