



Differential and Gauge Compensated Pressure Sensor (0 to 50 kPa)

MPXx2053

Last Updated: Dec 23, 2025

The MPX2053/MPXV2053G/MPXM2053 device series offer silicon piezoresistive pressure sensors with highly accurate and linear voltage output directly proportional to the applied pressure.

- Supports applications such as pump/motor control, robotics, level detectors, pressure switching, medical diagnostics, and blood pressure measurement
- Provides a single monolithic silicon diaphragm with the strain gauge and a thin-film resistor network integrated on-chip
- Enables precise span and offset calibration and temperature compensation

MPXX2053_BD Block Diagram

PACKAGING ORDERING INFORMATION

Device Type	Packing Options	Case
MPXV2053GP	Gauge, Side Port, SMT	1369
MPXV2053DP	Differential Dual Port, SMT	1351
MPX2053D	Differential	344
MPX2053DP	Differential, Dual Port	344C
MPX2053GP	Gauge	344B
MPX2053GSX	Gauge, Axial PC Mount	344F
MPX2053GVP	Gauge, Vacuum	344D
MPXM2053D	Absolute, Element Only	1320
MPXM2053DT1	Absolute, Axial Port	1320
MPXM2053GS	Absolute, Axial Port	1320A
MPXM2053GST1	Absolute, Element Only	1320A

View additional information for [Differential and Gauge Compensated Pressure Sensor \(0 to 50 kPa\)](#).

Note: The information on this document is subject to change without notice.

www.nxp.com

NXP and the NXP logo are trademarks of NXP B.V. All other product or service names are the property of their respective owners. The related technology may be protected by any or all of patents, copyrights, designs and trade secrets. All rights reserved. © 2025 NXP B.V.