

V5/01-2024



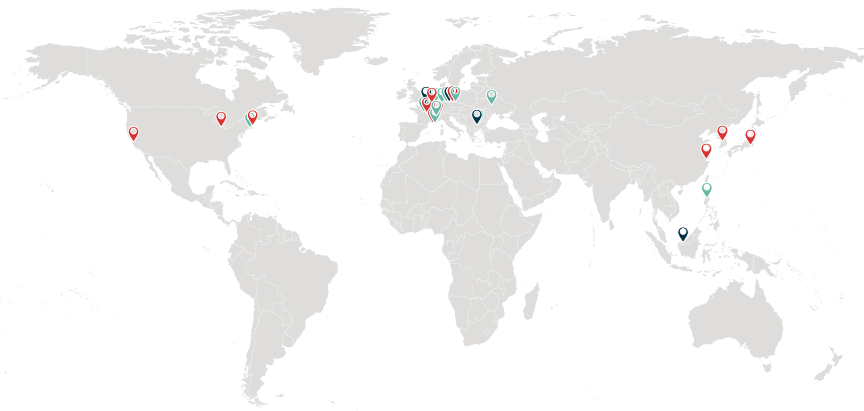
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INNOVATION WITH HEART

SELECTION GUIDE

PRESSURE SENSORS



The small-sized butterfly fish can detect subtle changes in water pressure through a lateral line system. Their pressure sensing organs help to avoid collisions, participate in schooling behavior, orient to water currents, elude predators and detect prey.

Micro-machined, versatile, both absolute and relative pressure sensor IC solutions suitable for a variety of pressure ranges, outstanding in terms of longterm stability and compact size.

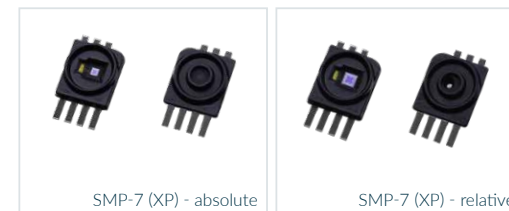
Melexis pressure sensors

	Part No.	Type	Status	Package type	Factory calibrated	Output type	Harsh media (corrosive gases)	Calibrated transfer function	Calibratable pressure spans	Operating temp. (min)	Operating temp. (max)	Operating supply voltage (min)	Operating supply voltage (max)
Standard SMD	MLX90809LXG-EAD-000	Relative	Prod	SOIC16	✓	Analog ratiometric		0.05 to -1.05 bar relative pressure / 0.5 to 4.5 V analog output	-	-40 °C	150 °C	4.5 V	5.5 V
	MLX90809LXG-EAD-003	Relative	Prod	SOIC16	✓	Analog ratiometric		0 to 1 bar relative pressure / 0.5 to 4.5 V analog output	-	-40 °C	150 °C	4.5 V	5.5 V
	MLX90809LXG-EAD-007	Relative	Prod	SOIC16	✓	Analog ratiometric		0 to -1 bar relative pressure / 0.5 to 4.5 V analog output	-	-40 °C	150 °C	4.5 V	5.5 V
	MLX90809LXG-EAD-100	Relative	Prod	SOIC16	✓	Digital SENT		0.05 to -1.2 bar relative pressure / 193 to 3896 LSB SENT output	-	-40 °C	150 °C	4.5 V	5.5 V
	MLX90821LXG-DBA-003	Relative	Prod	SOIC16	✓	Analog ratiometric		-0.06 to 0.26 bar relative pressure / 0.5V to 4.5 V analog output	-	-40 °C	150 °C	4.5 V	5.5 V
	MLX90821LXG-DBA-005	Relative	Prod	SOIC16	✓	Analog ratiometric		-0.05 to 0.05 bar relative pressure / 0.5 V to 4.5 V analog output	-	-40 °C	150 °C	4.5 V	5.5 V
	MLX90821LXG-DBA-006	Relative	Prod	SOIC16	✓	Analog ratiometric		-0.2 to 0.5 bar relative pressure / 4.5 V to 0.5 V analog output	-	-40 °C	150 °C	4.5 V	5.5 V
	MLX90821LXG-DBA-007	Relative	Prod	SOIC16	✓	Analog ratiometric		-0.1 to 0.1 bar relative pressure / 0.5 V to 4.5 V analog output	-	-40 °C	150 °C	4.5 V	5.5 V
	MLX90821VXG-DBA-008	Relative	Prod	SOIC16	✓	Analog ratiometric		-0.0375 to 0.0125 bar relative pressure / 4.5 V to 0.5 V analog output	-	-40 °C	115 °C	4.5 V	5.5 V
	MLX90821LXG-DBA-100	Relative	Prod	SOIC16	✓	Digital SENT		-0.06 to 0.26 bar relative pressure / 193 to 3896 LSB SENT output / NTC	-	-40 °C	150 °C	4.5 V	5.5 V
	MLX90817LXE-DBG-001	Absolute	Prod	DFN14	✓	Analog ratiometric		0.5 to 4 bar absolute pressure / 0.5 V to 4.5 V output	-	-40 °C	150 °C	4.5 V	5.5 V
	MLX90817LXE-DBG-003	Absolute	Prod	DFN14	✓	Analog ratiometric		0.2 to 5.5 bar absolute pressure / 0.5 V to 4.5 V output	-	-40 °C	150 °C	4.5 V	5.5 V
	MLX90817LXE-DBH-008	Absolute	Prod	DFN14	✓	Analog ratiometric		0.1 to 1.15 bar absolute pressure / 0.4 V to 4.65 V output	-	-40 °C	150 °C	4.5 V	5.5 V
	MLX90817LXE-DBG-010	Absolute	Prod	DFN14	✓	Analog ratiometric		0.2 to 2.5 bar absolute pressure / 0.2 V to 4.8 V output	-	-40 °C	150 °C	4.5 V	5.5 V
	MLX90817LXE-DBG-012	Absolute	Prod	DFN14	✓	Analog ratiometric		0.2 to 3 bar absolute pressure / 0.4 V to 4.65 V output	-	-40 °C	150 °C	4.5 V	5.5 V
	MLX90817LXE-DBH-014	Absolute	Prod	DFN14	✓	Analog ratiometric		0.133 to 1.199 bar absolute pressure / 1 V to 4.2 V output	-	-40 °C	150 °C	4.5 V	5.5 V
	MLX90817LXE-DCG-000	Absolute	Prod	DFN14	✓	Analog ratiometric	✓	0.2 to 4 bar absolute pressure / 0.4 V to 4.65 V output	-	-40 °C	150 °C	4.5 V	5.5 V
	MLX90817LXE-DCH-008	Absolute	Prod	DFN14	✓	Analog ratiometric	✓	0.1 to 1.15 bar absolute pressure / 0.4 V to 4.65 V output	-	-40 °C	150 °C	4.5 V	5.5 V
	MLX90818LXE-BBG-015	Absolute	Prod	DFN14	✓	Digital SENT	✓	0.1 to 4 bar absolute pressure / 193 to 3896 LSB SENT output	-	-40 °C	150 °C	4.5 V	5.5 V
MLX90818LXE-BBG-016	Absolute	Prod	DFN14	✓	Digital SENT	✓	0.1 to 3 bar absolute pressure / 193 to 3896 LSB SENT output / NTC	-	-40 °C	150 °C	4.5 V	5.5 V	
MLX90818LXE-BBG-017	Absolute	Prod	DFN14	✓	Digital SENT	✓	0.1 to 4 bar absolute pressure / 193 to 3896 LSB SENT output / NTC	-	-40 °C	150 °C	4.5 V	5.5 V	
Bare die	MLX90819LUF-EBA-000	Relative	Prod	Bare die		Analog ratiometric / Digital SENT			10 - 35 bar full span	-40 °C	150 °C	4.5 V	5.5 V
	MLX90819LUF-EBB-000	Relative	Prod	Bare die		Analog ratiometric / Digital SENT			30 - 50 bar full span	-40 °C	150 °C	4.5 V	5.5 V
	MLX90820LUF-EBA-000	Absolute	Prod	Bare die		Analog ratiometric / Digital SENT			10 - 35 bar full span	-40 °C	150 °C	4.5 V	5.5 V
	MLX90820LUF-EBB-000	Absolute	Prod	Bare die		Analog ratiometric / Digital SENT			30 - 50 bar full span	-40 °C	150 °C	4.5 V	5.5 V
PCB-less	MLX90822GXP-BAA-300	Absolute	Prod	SMP-7	✓	Analog ratiometric	✓	0.1 to 1.15 bar absolute pressure / 0.5 V to 4.5 V output	-	-40 °C	160 °C	4.5 V	5.5 V
	MLX90822GXP-BAB-301	Absolute	Prod	SMP-7	✓	Analog ratiometric	✓	0.1 to 3 bar absolute pressure / 0.5 V to 4.5 V output	-	-40 °C	160 °C	4.5 V	5.5 V
	MLX90822GXP-BAB-302	Absolute	Prod	SMP-7	✓	Analog ratiometric	✓	0.1 to 4 bar absolute pressure / 0.5 V to 4.5 V output	-	-40 °C	160 °C	4.5 V	5.5 V
	MLX90822GXP-BAA-304	Absolute	Prod	SMP-7	✓	Analog ratiometric	✓	0.1 to 1.15 bar absolute pressure / 0.4 V to 4.65 V output	-	-40 °C	160 °C	4.5 V	5.5 V
	MLX90823GXP-BAD-301	Relative	Prod	SMP-7	✓	Analog ratiometric	✓	-0.2 to 0.5 bar relative pressure 0.5V to 4.5V analog output	-	-40 °C	160 °C	4.5 V	5.5 V
	MLX90823GXP-BAF-305	Relative	Prod	SMP-7	✓	Analog ratiometric	✓	-0.017 to 0.345 bar relative pressure 0.5V to 4.5V analog output	-	-40 °C	160 °C	4.5 V	5.5 V
	MLX90823GXP-BAD-306	Relative	Prod	SMP-7	✓	Analog ratiometric	✓	0 to -1.0 bar relative pressure 0.5V to 4.5V analog output	-	-40 °C	160 °C	4.5 V	5.5 V
	MLX90823GXP-BAD-308	Relative	Prod	SMP-7	✓	Analog ratiometric	✓	0 to 1.0 bar relative pressure 0.5V to 4.5V analog output	-	-40 °C	160 °C	4.5 V	5.5 V
	MLX90824GXP-DAC-300	Absolute	Prod	SMP-7	✓	Digital SENT	✓	0.1 to 1.15 bar absolute pressure / 193 to 3896 LSB SENT output / NTC	-	-40 °C	160 °C	4.5 V	5.5 V
	MLX90824GXP-DAD-301	Absolute	Prod	SMP-7	✓	Digital SENT	✓	0.1 to 3 bar absolute pressure / 193 to 3896 LSB SENT output / NTC	-	-40 °C	160 °C	4.5 V	5.5 V
	MLX90824GXP-DAD-302	Absolute	Prod	SMP-7	✓	Digital SENT	✓	0.1 to 4 bar absolute pressure / 193 to 3896 LSB SENT output / NTC	-	-40 °C	160 °C	4.5 V	5.5 V
	MLX90825GXP-DAD-300	Relative	Prod	SMP-7	✓	Digital SENT	✓	-0.2 to 0.8 bar relative pressure / 193 to 3896LSB SENT output / No NTC	-	-40 °C	160 °C	4.5 V	5.5 V
	MLX90825GXP-DAD-302	Relative	Prod	SMP-7	✓	Digital SENT	✓	0 to 0.5 bar relative pressure / 193 to 3896LSB SENT output / No NTC	-	-40 °C	160 °C	4.5 V	5.5 V
	MLX90825GXP-DAD-400	Relative	Prod	SMP-7	✓	Digital SENT	✓	-0.2 to 0.8 bar relative pressure / 193 to 3896LSB SENT output / Master / No NTC	-	-40 °C	160 °C	4.5 V	5.5 V
	MLX90825GXP-DAD-500	Relative	Prod	SMP-7	✓	Digital SENT	✓	-0.2 to 0.8 bar relative pressure / UART output / Slave / No NTC	-	-40 °C	160 °C	4.5 V	5.5 V
	MLX90825GXP-DAD-404	Relative	Prod	SMP-7	✓	Digital SENT	✓	-0.3 to 1 bar relative pressure / 193 to 3896LSB SENT output / Master / No NTC	-	-40 °C	160 °C	4.5 V	5.5 V
MLX90825GXP-DAD-504	Relative	Prod	SMP-7	✓	Digital SENT	✓	-0.3 to 1 bar relative pressure / UART output / Slave / No NTC	-	-40 °C	160 °C	4.5 V	5.5 V	
Triphibian™	MLX90830-LXG-BAH-001	Absolute	Prod	SOIC16	✓	Analog ratiometric		0 to 10.342 bar (= 150PSI) absolute pressure / 0.5 to 4.5V analog output	-	-40 °C	150 °C	4.5 V	5.5 V
	MLX90830-LXG-BAF-002	Absolute	Prod	SOIC16	✓	Analog ratiometric		0 to 34.474 bar (= 500PSI) absolute pressure / 0.5 to 4.5V analog output	-	-40 °C	150 °C	4.5 V	5.5 V

SMD SOLUTIONS



PCB-LESS SOLUTIONS



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