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Research & Development

Sales & Applications

Manufacturing





PTC-04 AND DAUGHTERBOARD

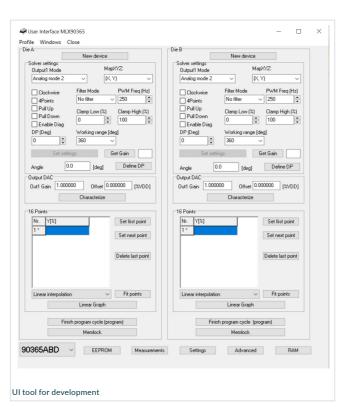
The Melexis family of programmable sensors are designed to be integrated into an application and then programmed. Programming allows for setting the various operating modes inside the chip and for performing an end-of-line calibration which reduces or removes residual error due to mechanical tolerances for example.

To program the sensor the PTC-04 (programmed through connector) programming tool is used. The PTC-04 connects between a PC and the sensor to be programmed and manages the conversion of commands from the PC to the sensor. An easy to use UI is provided for every product allowing for easy development. For production environments, a DLL is also provided that can be called from Labview, Visual Basic, C#, or any language that supports ActiveX COM libraries thus enabling the automation of the calibration process.

The PTC-04 programmer contains its own programmable power supply and measurement circuitry. It's similar to a standard EEPROM programmer, but adds many special features such as 16-bit voltage and current measurement capability, and configuration options that will accommodate users from the prototyping phase directly into production. A PC is required to load software to the programmer and control the functions of the programmer.

Communication is done through a standard RS-232 null modem cable to a COM port of the PC or via USB. The PC requires no custom configuration, allowing the programmer to be used with any PC with a COM port speed of 115.2kbs or a standard USB 1.1 or USB 2.0 (Type A) interface.





Daughterboards for Triaxis position sensor products	
Triaxis sensor ICs	Daughterboard required
MLX90316	PTC-04-DB-90316
MLX90324	PTC-04-DB-90316
MLX90333	PTC-04-DB-90316
MLX90340	PTC-04-DB-90316
MLX90360	PTC-04-DB-90316
MLX90363	DB-SPI or N/A ⁽¹⁾
MLX90364	PTC-04-DB-90316 or PTC-04-DB-HALL06
MLX90365	PTC-04-DB-90316 or PTC-04-DB-HALL06
MLX90366	PTC-04-DB-90316 or PTC-04-DB-HALL06
MLX90367	PTC-04-DB-90316 or PTC-04-DB-HALL06
MLX90371	PTC-04-DB-HALL06
MLX90372	PTC-04-DB-HALL06
MLX90373	PTC-04-DB-HALL06
MLX90374	PTC-04-DB-HALL06
MLX90377	PTC-04-DB-HALL06
MLX90378	PTC-04-DB-HALL06
MLX90392	N/A ⁽¹⁾
MLX90393	N/A ⁽¹⁾
MLX90395	N/A ⁽¹⁾
MLX90421	PTC-04-DB-HALL06
MLX90422	PTC-04-DB-HALL06

	Daughterboards for ve position sensor products
Inductive sensor ICs	Daughterboard required
MLX90510	PTC-04-DB-HALL06 (4) or PTC-04-DB-MUPET

(1) Programmable via SPI (do not require the use of the PTC-04).	
(2) PWM Output	

⁽³⁾ PSI5 Output.

Daughterboards for Linear Hall position sensor products	
Linear Hall sensor ICs	Daughterboard required
MLX91377	PTC-04-DB-HALL06
MLX90293	PTC-04-DB-90316
MLX90292	PTC-04-DB-HALL03 (2) or PTC-04-DB-HALL04 (3)
MLX90288	PTC-04-DB-HALL03
MLX90251	PTC-04-DB-HALL01
MLX90215	PTC-04-DB-HALL01

Daughterboards for Latches & Switches	
Latch & Switch ICs	Daughterboard required
MLX92232	PTC04-DB-922xx
MLX92242	PTC04-DB-922xx
MLX92292	PTC04-DB-922xx

Daughterboards for current sensors	
Current sensor ICs	Daughterboard required
MLX91206	PTC04-DB-HALL03
MLX91207	PTC04-DB-HALL03
MLX91208	PTC04-DB-HALL05
MLX91209	PTC04-DB-HALL05
MLX91216	PTC04-DB-HALL05
MLX91217	PTC04-DB-HALL05
MLX91218	PTC04-DB-HALL05
MLX91219	PTC04-DB-HALL05

Daughterboards for Pressure sensors	
Pressure sensor ICs	Daughterboard required
MLX90807	PTC04_DB_Pressure01
MLX90808	PTC04_DB_Pressure01
MLX90809	PTC04_DB_Pressure01
MLX90817	PTC04_DB_Pressure01
MLX90818	PTC04_DB_Pressure01
MLX90819	PTC04_DB_Pressure01
MLX90820	PTC04_DB_Pressure01
MLX90821	PTC04_DB_Pressure01
MLX90328	PTC04_DB_Pressure01
MLX90329	PTC04_DB_Pressure01



⁽⁴⁾ version 3 or hgigher