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Research & Development



Manufacturing





## PTC-04 AND DAUGHTERBOARD

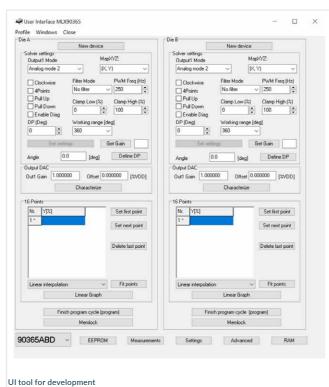
The Melexis family of programmable sensors are designed to be integrated into an application and then programmed. Programming allows for setting the various operating modes inside the chip and for performing an end-of-line calibration which reduces or removes residual error due to mechanical tolerances 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 (4) |
| MLX90365   | PTC-04-DB-90316 or PTC-04-DB-HALL06 (4) |
| MLX90366   | PTC-04-DB-90316 or PTC-04-DB-HALL06 (4) |
| MLX90367   | PTC-04-DB-90316 or PTC-04-DB-HALL06 (4) |
| MLX90371   | PTC-04-DB-HALL06                        |
| MLX90372   | PTC-04-DB-HALL06                        |
| MLX90373   | PTC-04-DB-HALL06 (5)                    |
| MLX90374   | PTC-04-DB-HALL06                        |
| MLX90376   | PTC-04-DB-HALL06                        |
| MLX90377   | PTC-04-DB-HALL06                        |
| MLX90378   | PTC-04-DB-HALL06                        |
| MLX90392, MLX90393,<br>MLX90394, MLX90395,<br>MLX90397 | N/A <sup>(1)</sup>                      |
| MLX90421   | PTC-04-DB-HALL06                        |
| MLX90422   | PTC-04-DB-HALL06                        |
| MLX90423   | PTC-04-DB-HALL06                        |
| MLX90425   | PTC-04-DB-HALL06                        |
| MLX90426   | PTC-04-DB-HALL06                        |

| Daughterboards for Linear Hall position sensors |  |
|---|--|
| Daughterboard required                          |  |
| PTC-04-DB-HALL06                                |  |
| PTC-04-DB-90316                                 |  |
| PTC-04-DB-HALL03 (2) or PTC-04-DB-HALL04 (3)    |  |
| PTC-04-DB-HALL03                                |  |
| PTC-04-DB-HALL01                                |  |
| PTC-04-DB-HALL01                                |  |
|   |  |

| Daughterboards for Inductive position sensors |   |
|---|---|
| Inductive sensor ICs                          | Daughterboard required                  |
| MLX90510                                      | PTC-04-DB-HALL06 (4) or PTC-04-DB-MUPET |
| MLX90513                                      | PTC-04-DB-HALL06 (4)                    |
| MLX90517                                      | PTC-04-DB-HALL06 (4)                    |

| Daughterboards for Latches & Switches |  |
|---------------------------------------|--|
| Latch & Switch ICs                    | Daughterboard required                 |
| MLX92232                              | PTC04-DB-922xx                         |
| MLX92242                              | PTC04-DB-922xx                         |
| MLX92292                              | PTC04-DB-922xx or PTC-04-DB-HALL06 (6) |
| MLX92352                              | PTC-04-DB-HALL06 (6)                   |
| MLX92362                              | PTC-04-DB-HALL06 (6)                   |

| 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 |  |
|-------------------------------------|--|
| Daughterboard required              |  |
| PTC04_DB_Pressure01                 |  |
| PTC04_DB_Pressure01                 |  |
| PTC-04-DB-HALL06 (4)                |  |
| PTC-04-DB-HALL06 <sup>(4)</sup>     |  |
| PTC04_DB_Pressure01                 |  |
|                                     |  |



<sup>(1)</sup> Programmable via SPI (do not require the use of the PTC-04).

<sup>(2)</sup> PWM Output.

<sup>(3)</sup> PSI5 Output.

<sup>(4)</sup> version 3 or hgigher

<sup>(5)</sup> version 4 or higher

<sup>(6)</sup> version 7 or higher