

International Presence

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Research & Development

- Sales & Applications
- Manufacturing



The sea turtle's ability to locate its home beach is truly remarkable. As with many migratory animals, sea turtles accomplish this feat by measuring the Earth's magnetic field. A close link with our variety of magnetic sensors. The sea turtle's shield ensures safety at all times, just like our products do. A must for an important player in the automotive industry. Melexis INSPIRED ENGINEERING

SELECTION GUIDE

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 is designed for efficient, precise calibration of the Melexis families of programmable ICs and can be easily adapted to a standard PC and to an application module to allow calibration of programmable sensor ICs within the operating environment.

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.

	- funktion	🖉 User in
	g System; g System.Windows.Forms;	
	g PSF090365AANLXModule:	Profile V
	g PTC04PSFModule;	Die A
	g CommUnit:	Solver
	g MLXMPTCommon;	Outp
	, more recently	Anal
Iname	space MLX90316 C_sharp_Demo	
{	Proce Herborze_e_sharp_bene	-4
	public partial class Form1 : Form	
	(
	private static PSF090365AAMLXDevice Dev;	
	private PSF090365AAMLXAdvanced Advanced;	DP (D
	private PSF090365AAMLXSolver Solver;	0
	private PTC04PSFDevice PTC04;	<u> </u>
	private PSF090365AAMLXManager PSFMan;	
	prate of the observation and the strains	
	private bool connected = false;	Angle
	private ObjectCollection devicesCol;	Output
	prate objectoriector devices of	Ourt 6
1	<pre>public Form1()</pre>	- Curre
	(
	<pre>InitializeComponent();</pre>	-16 Poir
	}	
		Nr.
ę.	<pre>private void Exit_Click(object sender, EventArgs e)</pre>	1.
	private void BTN_Connect_Click(object sender, EventArgs e)	
	int temp;	
	PSFMan = new PSF090365AAMLXManager();	
	<pre>devicesCol = new ObjectCollection();</pre>	
L	if (connected == false)	
	1	Line
	<pre>devicesCol = (ObjectCollection)PSFMan.ScanStandalone(DeviceType.dtSerial);</pre>	
	<pre>if (devicesCol.Count <= 0)</pre>	1
	1	
	MessageBox.Show("No PTC-84 programmers found.");	
	return;	
		90365
5	if (devicesCol.Count >= 1)	90303
11.1	- (



Daughterboards for Triaxis position sensor products				
Triaxis sensor	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 (2)			
MLX90365	PTC-04-DB-90316 or PTC-04-DB-HALL06 (2)			
MLX90366	PTC-04-DB-90316 or PTC-04-DB-HALL06 ^[2]			
MLX90367	PTC-04-DB-90316 or PTC-04-DB-HALL06 ⁽²⁾			
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			
MLX90393	N/A ⁽¹⁾			
MLX90395	N/A ⁽¹⁾			

 The MLX90363, MLX90393 and MLX90395 can be programmed via SPI and therefore do not require the use of the PTC-04.
Compatibility with PTC-04-DB-HALL06 available late 2019.
PWM Output.
PSI5 Output.



Example C# code for automation

UI tool for development

Daughterboards for Linear Hall position sensor products			
Linear Hall sensor	Daughterboard required		
MLX91377	PTC-04-DB-HALL06		
MLX90293	PTC-04-DB-90316		
MLX90292	PTC-04-DB-HALL03 ⁽³⁾ or PTC-04-DB-HALL04 ⁽⁴⁾		
MLX90288	PTC-04-DB-HALL03		
MLX90251	PTC-04-DB-HALL01		
MLX90215	PTC-04-DB-HALL01		

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

Daughterboards for current sensors		
Current sensor product	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	

Daughterboards for Pressure sensors		
Pressure sensor product	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	

