

CMPS03 - Compass Module

For documentation on CMPS03 revisions prior to Rev14, [click here](#)

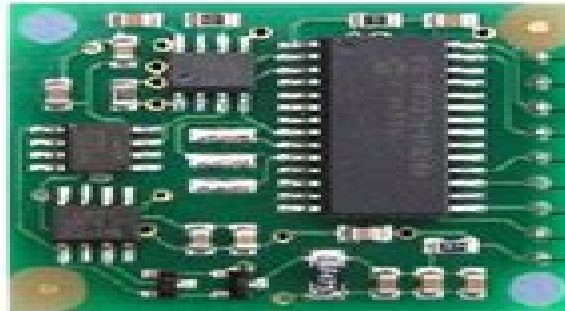
Earlier versions can be identified by the presence of the silver 8MHz ceramic resonator in the middle of the PCB, this has been removed on new modules.

Rev14 was released March 2007

Overview

This compass module has been specifically designed for use in robots as an aid to navigation. The aim was to produce a unique number to represent the direction the robot is facing. The compass uses the Philips KMZ51 magnetic field sensor, which is sensitive enough to detect the Earth's magnetic field. The output from two of them mounted at right angles to each other is used to compute the direction of the horizontal component of the Earth's magnetic field. We have [examples](#) of using the Compass module with a wide range of popular controllers.

Connections to the compass module



- Pin 9 - 0v Ground
- Pin 8 - No Connect
- Pin 7 - No Connect
- Pin 6 - Calibrate
- Pin 5 - Calibrating
- Pin 4 - PWM
- Pin 3 - SDA
- Pin 2 - SCL
- Pin 1 - +5v

Connections

Pin 1, +5v. The compass module requires a 5v power supply at a nominal 25mA.

There are two ways of getting the bearing from the module. A PWM signal is available on pin 4, or an I2C interface is provided on pins 2,3.

Pins 2,3 are the I2C interface and can be used to get a direct readout of the bearing. If the I2C interface is not used then these pins should be pulled high (to +5v) via a couple of resistors. Around 47k is ok, the values are not at all critical.

Pin 4. The PWM signal is a pulse width modulated signal with the positive width of the pulse representing the angle. The pulse width varies from 1mS (0°) to 36.99mS (359.9°) in other words 100uS/° with a +1mS offset. The signal goes low for 65mS between pulses, so the cycle time is 65mS + the pulse width - ie. 66ms-102ms. The pulse is generated by a 16 bit timer in the processor giving a 1uS resolution, however I would not recommend measuring this to anything better than 0.1° (10uS). Make sure you connect the I2C pins, SCL and SDA, to the 5v supply if you are using the PWM, as there are no pull-up resistors on these pins.

Pin 5 is used to indicate calibration is in progress (active low). You can connect an LED from this pin to +5v via a 390 ohm resistor if you wish.

Pin 6 is one of two ways to calibrate the compass, the other is writing 255 (0xFF) to the command register.

Cmps03 Compass Module

Tom Igoe



Cmps03 Compass Module:

Sensor Fusion Ciza Thomas, 2011-06-13 Sensor Fusion Foundation and Applications comprehensively covers the foundation and applications of sensor fusion. This book provides some novel ideas, theories, and solutions related to the research areas in the field of sensor fusion. The book explores some of the latest practices and research works in the area of sensor fusion. The book contains chapters with different methods of sensor fusion for different engineering as well as non-engineering applications. Advanced applications of sensor fusion in the areas of mobile robots, automatic vehicles, airborne threats, agriculture, medical field, and intrusion detection are covered in this book. Sufficient evidences and analyses have been provided in the chapter to show the effectiveness of sensor fusion in various applications. This book would serve as an invaluable reference for professionals involved in various applications of sensor fusion. **Making Things Talk** Tom

Igoe, 2007-09-28 This book contains a series of projects that teaches readers what they need to know to get their creations talking to each other, connecting to the Web, and forming networks of smart devices. *Mobile Robots* Zoran

Gacovski, 2011-10-26 This book consists of 18 chapters divided in four sections: Robots for Educational Purposes, Health Care and Medical Robots, Hardware, State of the Art, and Localization and Navigation. In the first section, there are four chapters covering autonomous mobile robot Emmy III, KCLBOT mobile nonholonomic robot, and general overview of educational mobile robots. In the second section, the following themes are covered: walking support robots, control system for wheelchairs, leg wheel mechanism as a mobile platform, micro mobile robot for abdominal use, and the influence of the robot size in the psychological treatment. In the third section, there are chapters about I2C bus system, vertical displacement service robots, quadruped robots, kinematics and dynamics model, and Epi q hybrid robots. Finally, in the last section, the following topics are covered: skid-steered vehicles, robotic exploration, new place recognition, omnidirectional mobile robots, ball wheel mobile robots, and planetary wheeled mobile robots. Physicomimetics William M. Spears, Diana F. Spears, 2012-01-05

Standard approaches to understanding swarms rely on inspiration from biology and are generally covered by the term biomimetics. This book focuses on a different complementary inspiration, namely physics. The editors have introduced the term physicomimetics to refer to physics-based swarm approaches which offer two advantages. First, they capture the notion that nature is lazy, meaning that physics-based systems always perform the minimal amount of work necessary, which is an especially important advantage in swarm robotics. Second, physics is the most predictive science and can reduce complex systems to simple concepts and equations that codify emergent behavior and help us to design and understand swarms. The editors consolidated over a decade of work on swarm intelligence and swarm robotics, organizing the book into 19 chapters as follows: Part I introduces the concept of swarms and offers the reader a physics tutorial; Part II deals with applications of physicomimetics in order of increased complexity; Part III examines the hardware requirements of the presented algorithms and demonstrates real robot implementations; Part IV demonstrates how the theory can be used to design swarms from first

principles and provides a novel algorithm that handles changing environments finally Part V shows that physicomimetics can be used for function optimization moving the reader from issues of swarm robotics to swarm intelligence The text is supported with a downloadable package containing simulation code and videos of working robots This book is suitable for talented high school and undergraduate students as well as researchers and graduate students in the areas of artificial intelligence and robotics **Programming and Customizing the OOPic Microcontroller** Dennis Clark,2003 this authoritative guide delves deeply into this groundbreaking technology and delivers a programming guide and application notes dedicated to the OOPic environment This title includes a full object listing as well as an IDE Integrated Development Interface hardware and software guide and a CD OM with all project and experiment codes that you incorporate to customise your own projects Stay ahead of the robotics curve tap into the power of OOPic microcontrollers with this indispensable volume Unmanned Systems Technology ,2006 Notes on Compass Work J. F. Y. Kemp,1977

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