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PDF Full PDF PackeDowload Full PDF PackageThis Paper Short Summary of this PDF full paper12 related to this paperdownloadpdf package more¹ than a science fiction novel, this Ã is one of the antipoqueal musicians Jaime Restrepo Cuartas, Ã is a work in which Ã is a work in which Ã is a work in which Ã is a work in which Ã is a work in which Ã is a work in which Ã is a work in which many possibilities today they are given as true to make an exciting plot... at the pace of the advance of life that computers reach every day, the moment when masks do not have to have many of the qualities and defects, of human beings, such as love and hate, and betrayal. And above all the capacity to reason, this is the superior intelligence that men have kept as they are and the only one of the species, as an inheritance divine... next to the above, love. Not only that sublime that usually occurs between souls and related bodies, but another Exost© Rico is hybrid: that of a human being with a perfect woman, who nevertheless Ã is a robot. MedellÃ£n, August 1995 The Ã thermistor is essentially a semiconductor that behaves like a "rich technical resistor". They can be found on the market under the name NTC (negative temperature coefficient) with special cases of positive coefficient when their resistance increases with temperature and are called PTC (positive temperature coefficient). In general, thermistors are composed of a synthesized mixture of metal transition (manganese, shaft, copper and nuquel). A continuous change of resistance in a wide range of temperatures. Provide stability mechanical, rich and fast, together with a high degree of sensitivity. PTC Thermistors are manufactured as barium titanate (BAIO3) and should be chosen when Ã is required a doctor change These thermistors can operate at low temperatures, as temperature sensors in ranges from 60°C to 180°C For the automation of data acquisition processes, it is very convenient to measure the temperature electronically, which is why we use the variation of the resistance of a conductor or semic conductor with temperature. This is how resistance thermometers and thermistors emerge, respectively. Preliminary calibration is required for the use of such thermometers. The goodness of a thermometer based on the measurement of electrical resistances, whether it is manufactured with conductive or semiconductor material, is quantified by the so-called sensitivity Â"Ã", defined as:where R is the resistance and T is the temperature. Sensitivity is a parameter that, in general, depends on temperature. In a thermistor the variation of the electrical resistance at temperature R (T) corresponds approximately to the law R (T) = Ae B/T (2) where A = R O and ¤Â¤ B/T , where T O is the reference temperature, R O is the resistance at the reference temperature and B is the characteristic temperature of the material ranges between 2000 K and 4000 K [2]. Therefore A and B are constants depending on the characteristics of the thermistor. Calibration of the thermistor requires the determination of the values of the two parameters A and B.On the other hand, it can be deduced from equation (1) that the sensitivity of a thermistor is:The determination of absolute zero comes from the work of the French physicist Jacques Charles (1746-1823), who discovered that the volume of a gas at constant pressure grows linearly. This is a functional representation, as far as temperature is concerned.Absolute zero is the lowest possible theoretical temperature and is characterized by the total absence of heat. It’s the temperature at which particle motion stops. Here the energy level is the lowest Absolute zero (0 k) corresponds to approximately about The temperature of -273.16 Âo C.Â· Determine the calibration curve of a thermistor Ã˜ Â· deters from practice there was a test tube, to which glycerin was added, then a thermistor and a temperature sensor inside the test tube were intruded. In addition, this pipe was added to a prespired ship that initially contained water. Subsequently, the water was heated, using a “hot plate” until it reached a temperature of 80.1 Â° C recording the rise and, in turn, the arrangement of the resistance to the rise of the temperature, using a multi-tester in ohmmeter mode. Finally, the data obtained (resistance v/s Temperature) were processed to the semi-driver used in the experiment, using the Excel spreadsheet. For this experiment, a Pasco absolute zero APARATUS brand, model TD-8595, connected to a PASCO CL-6532 absolute pressure sensor and a precise range from 0 to 210kpa was organized. In a bucket, which contained hot water, the ball was placed in such a way as to completely submerge it underwater. Using the Logger Pro program, the temperature and pressure data were taken from a larger water to a smaller one, while simultaneously recording the pressure data. It should be noted that the temperature drop was favored by ice cubes bucketed with hot water. Finally, the data obtained (resistance temperature v/s) were carried out to an absolute aParatus used in the experiment, using the Excel spreadsheet. Figure No. 1. Assembly to determine the calibration curve of a thermistor. In the following table, the data obtained experimentally from the strength of an NTC thermistor are observed as temperature, together with the correction of the To find the functional relationship between these variables. Graph n. 1. The graphics of the resistance in the function at the temperature of an NTC type thermistor. In the present, the resistance report of the NTC thermistor in relation to the temperature is observed, obtaining a graph with exponential behavior and an indirectly proportional relationship between the variables, where as the temperature increases, the resistance of the thermistor decreases. Cié is expected, the thermistor is nature or NTC (negative coefficient temperature) or (negative temperature coefficient). In this graph we observe the rectified graph of the resistance of the thermistor VS temperature, in which the natural logarithm of the Resistance (Lnã® â ©) is graphic in operation of the inverse of the temperature (1/t) a linear linear relationship is obtained between The variables "ln ã® â © = b * 1 t ã ¢ ë † 'ln a", where through it, the value of the constants "a" (9.42x10-3ã® â ©) and "B" (4166, 2 k), which are relevant for the significant calibration of this admissible device (thermistor). In addition, it should be noted that the correlation coefficient between the graphic variable was 0.9881, which indicates that there is a strong relationship between the resistance and temperature variables. Constant "to" for the thermistor NTC. (Âž Â Â ©) The temperature of the calculated thermistor with resistance of 29710ã® â © (K) Table no. 2. Results of the determination of the constants of the NTC thermistor. In this table, the data obtained by the constants of the thermistor determined by the entire graphic designer (A and B), where through the fionmire sensitivity of a thermistor (ã® â ± = ã ¢ ë † 'b t 0 2) the sensitivity of This at 273 k, obtaining a value of -0.056 k -1, it should be noted that this value is based on the reference temperature (T0), therefore the sensitivity of the thermistor changes according to the temperature at which the otseuq rep elatnemireps erolav nu))APK(672.78 +)C °Â(*)C °Â/APk(4433,0 = aPk(etnedecerp ocifarg led enoizaler elanoiznuf led enoizalopartse'l osrevartta ehc ,"otulossa o 0" otulossa'lled erolav led enoizanimreted alled itatlusir ı ,allebat atseuq ni(arefs alled onretni'lla sag la ottepsir "cassul-yag eggel" al ,elanoiznuf enoizaler atseuq ,ertlonI .otanoiznem arpos ocifarg lI osrevartta atunetto enoizaler allen enoizisop id etneiciffeoc la ednopsirroc ehc ,aPk 672.78 id enoisserp anu Ãreticrese arefs alled onretni'lla sag li C °Â 0 a ehc e etnatsoc "K" anu ais)C °Â/apk 4433,0(aznednep alled erolav li ehC atunetto atats ¨Ã otseuq a emeisni ,)p + t * k = p(arutarepmet e enoisserp art eraenil enoizaler al atavresso atats ¨Ã etneuges ocifarg leN = + * = .enoizalopartse etnaidem)C °Â(otulossa rez ol eravort rep arutarepmet sv enoisserp icifnarG .3 .n ocifarG .erawtfoS" orP reggol" li osrevartta iggel e ovitisopsid len itunetnoc arutarepmet e enoisserp id irosnes iad etarusim etats onos ehc ,"atulossa orez arefs" anu id enoisserp al e elatnemireps arutarepmet id itad i itavresso onognev allebat atseuq nI .atulossa orez arefs anu osrevartta itunetto enoisserp e arutarepmet id ilatnemireps itaD .3 .n allebaT .otaicossa ossab erorre nu noc arutarepmet id irolav id oicnal li eresse ebbertop otseuq ©Âhciop ,eroilgim odom ni atiugese atats ¨Ã erotsimret led enoizarbilac al ehc a otnemirefir af is idniuQ .erotsimret li etnaidem ataloclac arutarepmet al noc olratsartnoc e enimret nu noc atarusim atats ¨Ã non oiccaihg led arutarepmet al ©Âhciop ,ociT ocitametsis erorre nu a otuvod ¨Ã erorre otseuq ,azneirepse'l rep erorrE elibattecca ¨Ã ehc ,%9,1'lled ovitaler erorre nu otunetto otats ¨Ã ,)K 51,372(etalubat noc erolav otseuq odnatsartnoc ,occaihg li rep olpitlum- itlum K 4,872 nu osrevartta erotsimret led aznetsiser alled aruttel al odnasu ,otnemadderffar id ovitisopsid nu ni atunetnoc oiccaihg led arutarepmet al atanimreted atats Ã -260.99 â ° C, contrasting this value with the tabulato thanks to the work of the Irish physical error is associated with the random and systematic errors typical of the experiment and which depends on the conditions and means to carry out the experience. The minimum increase in the temperature detectable for each of the terminals would be. It is because the thermistor has not very precise in determining the values of the resistance. B) investigate and explain at least three applications of thermistors. Automobile application: in a car a thermistor can be used to control the oil and refrigerant temperature. A thermistor also regulates the temperature of the batter. In a feeding source, a thermistor provides resistance, avoiding movement currents. The thermistor is heated, allowing more current flows. Control: a thermistor can be used to provide an adequate current flow, so that the LED chip is maintained at a normal heat level. The thermistor controls the current contained in the controller circuit. Current control allows you to be used in various applications. At the high report it was possible that a linear relationship was not obtained from the incorrect graphic designer, otherwise, that an exponential, therefore through this graph it was not possible to determine the constants for The thermistor used in the experiment, then, with the graph already rectified, is logo to determine the constant “a and b” for the calibration of the thermistor, obtaining also the functional relationship between these variables, (Â® Â© = e Ã¢Ë âb t t t t t t * A) and thus, manages to calculate the temperature of the ice contained bucket with a low error associated with the determination. Obtaining the functional relation (p = k * t + p), therefore, by extrapolation, an absolute value of – has been determined 260.99 Â° C. Thus verifying the value determined by the physical Lord Kelvin in his work on temperature (-273.15 Â° C) and directly the “Gay-Lussac Law” in reference to the gas inside of the sphere of the sphere

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