

# BS 9999

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**What does BS 9999 cover?** BS 9999 provides recommendations and guidance on the provision of measures to control or mitigate the effects of fire, including business continuity and the environment. The primary objective of the standard is to ensure that a reasonable standard of life safety can be achieved in the event of fire in the building.

**What is the latest version of BS 9999?**

**What is the difference between BS 9999 and 9991?** The recommendations and guidance given in BS 9991 and BS 9999 are intended to safeguard the lives of building occupants and fire-fighters. These are key fire safety standards, while BS 9999 focuses on non-residential buildings, BS 9991 covers residential buildings.

**What is the British Standard BS 9999 2017?** Provides general recommendations and guidance for the design, management and use of buildings, ensuring effective fire protection for all people in and around buildings. It is applicable to new buildings and to alterations, extensions and changes of use of an existing building.

**What is the difference between ADB and BS 9999?** Building Regulation Approved Document B can be applied to more common building solutions, but can prove unacceptable for larger, more complex buildings. By taking a more holistic view to fire safety, BS 9999 allows compensatory measures to offset, e.g. travel distances and/ or total escape door width.

**What is the BS 9999 fire dampers?** According to BS 9999, fire dampers are required to be installed in certain locations to maintain the fire resistance rating of walls, floors and ductwork by compartmentalising fires, cutting off air supply to affected compartments and keeping escape routes clear of smoke.

**When did BS9999 come out?** It was first published in 2008, when it part-superseded BS 5588 Fire precautions in the design, construction and use of buildings, parts of which are still relevant to residential buildings. It also replaced DD 9999 Code of practice for fire safety in the design, construction and use of buildings.

**Do I need a dry riser?** There should be a dry riser outlet on each floor of a high-rise building. This enables firefighters to get to a specific floor without having to drag a hose from the fire truck up the stairs. In residential buildings, dry risers need to be within a fire resistant shaft.

**What replaced bs308?** Since BS 308 was superseded by BS 8888, and the ISO standards for technical drawing were adopted in full, the number of standards covering technical drawing has expanded to around 200 ISO and EN ISO implementations.

**What is the bs9991 fire strategy?** BS 9991 gives recommendations and guidance to ensure residential buildings achieve reasonable standards of fire safety for people who are in and around them and for firefighters. This is tailored specifically to blocks of flats and houses and how they are designed, managed and occupied.

**What is the British standard for fire safety?** BS 9991 exists to help people put adequate fire safety measures in place in residential buildings. This includes fire detection and alarm systems and fixed fire-fighting systems.

**What is BS 8300?** What is the BS 8300 Code of Practice? BS 8300 is a British Code of Practice that sets out the requirements of how buildings should be designed, constructed and maintained to meet the needs of disabled people as well as create an accessible and inclusive environment for them.

**What is the BS 9999 guidance?** BS 9999 provides recommendations and guidance on the provision of measures to control or mitigate the effects of fire. The primary objective of BS 9999 is to ensure that an adequate standard of life safety can be achieved in the event of fire in the building.

**What is BS 9997?** BS 9997 provides a framework for a documented fire risk management system that can be audited, certificated, and evidenced to all stakeholders, including insurers.

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**Is BS 5950 still valid?** BS 5950 is a withdrawn British Standard for the design, fabrication and erection of structural steelwork.

**What is the risk profile A2 for BS 9999?** For an identical building design, BS 9999 with a risk profile A2, medium growth fire rate and sprinklers provided would allow the structural fire resistance to be reduced to 75 minutes.

**What is the BS for compartmentation?** Fire compartmentation regulations Documents such as Approved Document B, BS9999, BS 9991 include detailed guidance on the levels of fire resistance and how certain scenarios should be solved.

**What is the British standard for passive fire protection?** BS 476 Fire tests on building materials and structures, British Standards Institution. This standard specifies the time / temperature profile for the testing of fire resistant materials under fire engulfment conditions for pool fire simulation.

**What is BS 9997?** BS 9997 provides a framework for a documented fire risk management system that can be audited, certificated, and evidenced to all stakeholders, including insurers.

## **Soal dan Pembahasan Fisika SMP Kelas 9: Listrik Statis**

### **Pertanyaan 1:**

Jelaskan prinsip dasar listrik statis.

### **Jawaban:**

Listrik statis adalah fenomena yang terjadi ketika suatu benda memiliki kelebihan atau kekurangan elektron sehingga menimbulkan muatan listrik. Pengisian muatan listrik dapat terjadi melalui gesekan, konduksi, atau induksi.

### **Pertanyaan 2:**

Apa saja jenis-jenis muatan listrik?

### **Jawaban:**

Ada dua jenis muatan listrik, yaitu:

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- Muatan positif: Terjadi ketika suatu benda memiliki kekurangan elektron.
- Muatan negatif: Terjadi ketika suatu benda memiliki kelebihan elektron.

### Pertanyaan 3:

Bagaimana cara membuat suatu benda bermuatan listrik?

#### Jawaban:

Ada tiga cara untuk membuat suatu benda bermuatan listrik:

- **Gesekan:** Menggesekkan dua benda yang berbeda jenis material, seperti plastik dan wol.
- **Konduksi:** Memindahkan muatan listrik menggunakan suatu konduktor, seperti logam.
- **Induksi:** Mendekatkan suatu benda bermuatan listrik ke benda lain yang tidak bermuatan.

### Pertanyaan 4:

Apa saja sifat-sifat muatan listrik?

#### Jawaban:

Sifat-sifat muatan listrik meliputi:

- **Muatan sejenis saling tolak-menolak:** Muatan positif dan positif atau negatif dan negatif akan saling menolak.
- **Muatan tidak sejenis saling tarik-menarik:** Muatan positif dan negatif akan saling tarik-menarik.
- **Muatan dapat mengalir:** Muatan dapat berpindah dari suatu benda ke benda lain melalui konduktor.

### Pertanyaan 5:

Berikan contoh penerapan listrik statis dalam kehidupan sehari-hari.

#### Jawaban:

Penerapan listrik statis dalam kehidupan sehari-hari meliputi:

- Percikan listrik saat menyisir rambut atau menggosokkan balon ke rambut.
- Penempelan benda-benda kecil pada benda yang bermuatan listrik.
- Salinan mesin fotokopi berbasis listrik statis.

**How to calculate TL431?** TL431 Voltage Monitor Also, phone chargers are good examples of power devices with this circuit. So, the voltage monitor uses a simple  $\text{High limit} = V_{\text{ref}} (1 + R_1/R_2)$ . Here, the high limit here is the target voltage that lights up the LED with emitter voltages when hit. The voltage reference is at 2.5 volts in the TL431.

**What is the minimum current for TL431?** The recommended minimum operating current is only 35  $\mu\text{A}$  (standard TL431: 1 mA); the maximum ICA and VCA are the same as standard (100 mA and 36 V).

**What is the operation of TL431?** The TL431 has two main modes of operation, closed-loop configuration or open-loop configuration. Users can connect the REF pin to the CATHODE pin in a closed-loop configuration to close the feedback loop and regulate the output of the 431 device.

**What is the use of TL431 in SMPS?** The TL431 is a reference voltage source that is commonly used in the control circuit of isolated power supplies. Typically used to provide a precision reference voltage, the TL431 can also be configured as an analog controller by exploiting its on-board error amplifier.

**What is a TL431 equivalent to?**

**What is the gain of TL431?** Below is from the TI TL431 data sheet: It looks to have about 55dB of low frequency gain, with a gain-bandwidth of about 1.8MHz.

**What is the difference between TL431 and TL432?** The TL432 device has exactly the same functionality and electrical specifications as the TL431 device, but has different pinouts for the DBV, DBZ, and PK packages.

**How to test TL431?**

**What is the spec of TL431?** Description. The TL431 is three terminal adjustable shunt regulator offering excellent temperature stability and output current handling capability up to 100mA. The output voltage may be set to any chosen voltage between 2.5 and 36 volts by selection of two external divider resistors.

**What are the advantages of TL431?** It provides stable performance on a wide operating temperature range. In various applications, it is used when replacement of Zener diodes is necessary because its working is almost similar to the Zener diode except that the output voltage is programmable and adjustable.

**What is the difference between TL431 and LMV431?** The LMV431 is what device was developed by the previous National Semiconductor team and is a functional equivalent to the TLV431, although the LMV431 has a higher tolerance at the cathode for high voltage. The same is true for the LM431 vs TL431, these are direct functional equivalents.

**What is the output current of TL431?** The TL431 and TL432 operate with a wide current range from 1 to 100 mA with a typical dynamic impedance of 0.22  $\Omega$ .

**Is TL431 a zener diode?** The devices can be used as a replacement for zener diodes in many applications requiring an improvement in zener performance. Diodes' TL431 has the same electrical specifications as the industry standard '431 and is available in 2 grades with initial tolerances of 1% and 0.5% for the A and B grades respectively.

**What is the difference between LM4041 and TL431?** A TL431 regulates the output voltage with the feedback loop from CATHODE and REF. The LM4041-N operated different compared to the TL431 because the LM4041-N feedback loop is between the FB and ANODE.

**What is the purpose of a shunt regulator?** A shunt regulator is a type of a linear regulator to keep voltage constant. Linear regulators are largely classified into "shunt regulators" and "series regulators." Both of them can generate a stable voltage lower than the input voltage from an unstable input voltage.

**What type of transistor is TL431?** In 1977, Texas Instruments introduced the TL431 Zener diode, which works similarly to a Zener diode. It is a three-terminal

bipolar transistor, equivalent to an ideal N-type transistor without hysteresis losses.

**What is the min current of TL431?** The TL431 operates with a wide current range from 1 to 100mA with a typical dynamic impedance of 0.22 $\Omega$ .

**What is the difference between linear and shunt regulator?** There are two types of linear regulators: series regulators and shunt regulators. A series regulator, as the name implies, is placed in series between a power supply and a load whereas a shunt regulator is placed in parallel between a power supply and a load.

**What is the equivalent of TL431?** When TL431 is damaged, if there is no replacement of the same model, it can be directly replaced with KA431,  $\mu$ A431, LM431, YL431, S431, etc. TL431 suffix letters indicate product level and operating temperature range.

**Is TL431 NPN or PNP?** The TL431 is a three-terminal adjustable precision shunt voltage regulator integrated circuit. With the use of an external voltage divider, a TL431 can regulate voltages ranging from 2.5 to 36 V, at currents up to 100 mA.

**What is the internal structure of TL431?** According to its function, the TL431 consists of an internally integrated 2.5V reference voltage, a differential op-amp, and an open collector transistor.

**How do you calculate shunt value?** The maximum shunt resistor value is calculated as the ratio of the full-scale output voltage of the amplifier divided by its gain all divided by maximum load current. It should be noted that full-scale output range depends on the device supply and its output swing limitation.

**How do you calculate current shunt?** The entire current flows through the shunt and generates a voltage drop, which is then measured. Using Ohm's law and the known resistance, this measurement can then be used to calculate the current ( $I = V/R$ ).

**How to test TL431?**

**What is the output current of TL431?** The TL431 and TL432 operate with a wide current range from 1 to 100 mA with a typical dynamic impedance of 0.22  $\Omega$ .

## **Solution Electric Machinery 2nd Edition: Questions and Answers**

**1. Question:** What is the main purpose of the book "Solution Electric Machinery 2nd Edition"?

**Answer:** The primary goal of this book is to provide detailed solutions to complex problems encountered in the field of electric machinery. It offers comprehensive explanations and step-by-step procedures to aid in understanding the fundamentals and applications of electric machines.

**2. Question:** What are the key takeaways from using this book?

**Answer:** By working through the solutions presented in the book, readers can:

- Develop a strong foundation in electric machinery theory
- Enhance problem-solving skills and confidence
- Identify and resolve real-world challenges in electric machinery applications

**3. Question:** Who is the target audience for this book?

**Answer:** "Solution Electric Machinery 2nd Edition" is primarily intended for:

- Engineering students specializing in electrical engineering
- Professionals working in the field of electric machinery design, analysis, and maintenance
- Individuals preparing for certification exams in electric machinery

**4. Question:** What sets this book apart from other similar publications?

**Answer:** The unique features of this book include:

- Extensive and detailed solutions covering a wide range of electric machinery topics
- Clear and concise explanations with step-by-step guidance
- Inclusion of solved examples and practice problems to reinforce concepts

**5. Question:** Where can I purchase or access this book?

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**Answer:** "Solution Electric Machinery 2nd Edition" can be purchased from various bookstores, online retailers, or directly from the publisher. It is also available in digital formats for convenient access.

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