



Choose certainty.
Add value.

MEP systems inspection, testing and certification MEP系统检验、 测试和认证

Third-party solutions to ensure safe, reliable and efficient systems for buildings and industrial facilities.
第三方解决方案，确保建筑和工业设施系统的安全、可靠和高效

Your challenges

Ensuring the safety, availability and cost effectiveness of building systems enables designers, installers and building owners and operators to offer competitive and attractive products in the real estate market. In order to meet the expectations of owners and occupants, the mechanical, electrical and plumbing (MEP) systems in these buildings are required to function at maximum efficiency. Maximising the performance of MEP systems requires specialised technical and engineering expertise.

Why are inspection, testing and certification of MEP systems important for your business?

MEP systems require expert implementation and regular inspections to ensure that they run smoothly and efficiently. In addition, these measures are necessary to achieve compliance with the various safety and quality requirements of national and international standards and regulations. Systems certification also provides confirmation of quality.

您面临的挑战

确保建筑系统的安全性、可用性和成本效率，为设计师、安装人员、建筑业主和经营者在房地产市场内部提供具有竞争力和吸引力的产品。为了满足业主和住户的预期，这些建筑内部的机械、电气和管道（MEP）系统功能效率必须达到最大化。想要实现MEP系统性能最大化，要求具备专业技术与工程技能。

为什么MEP系统检验、测试和认证对于您的业务非常重要？

MEP系统需要得到专业运行和维护，并且接受定期检验，旨在确保顺利、高效运行。除此以外，如欲符合国家与国际标准与规范的多种安全和质量要求，同样有必要采取这些措施。系统认证同样有助于确保质量。

Last but not least, optimising your MEP installations makes good business sense as it saves cost, reduces liability risks and ensures reliability of your systems.

How can we help you?

TÜV SÜD is accredited internationally as a Notified Body and Certification Body to conduct impartial inspections, testing and certification of your building services installations. We have the necessary expertise in all engineering disciplines. This enables us to provide holistic and comprehensive consultancy in mediating the discussion between different MEP designers and integrating all the designers' work during installation.

To prepare for our services, you will need to specify what your objectives are for the future use of your building, and/or provide technical documentation indicating the standards by which your existing building services installations were designed and installed (e.g. American, Chinese or European standards).

Our MEP systems services

■ Testing and inspection

We conduct pre-commissioning tests, on-site inspections, function tests and acceptance tests upon completion. Our expertise covers all aspects of technical facilities such as heating, ventilation and air-conditioning (HVAC) systems, sanitary systems, refrigeration systems, high- and low-voltage systems, overvoltage protection devices, emergency power supply systems, lightning protection systems, machinery, alarm systems (such as fire alarm systems, loudspeaker alarm systems), smoke and heat extraction units, fire-fighting equipment and fire barriers, instrumentation and control systems, and building automation systems. It also includes thermal engineering products such as heating boilers, gas-fired air heaters and shut-off apparatus.

■ Certification

TÜV SÜD is a qualified Certification Body for fire alarm systems, grid compatibility of power generators, energy efficiency of products for fire, ventilation, refrigeration and air-conditioning systems, as well as energy efficiency of data centres. We offer cross-disciplinary consulting throughout the certification process and the term of the contract.

最后一点，同样也是十分重要的一点，即MEP装置的优化在节约成本、降低可靠性风险、确保系统的可靠运行方面，具有显著的商业意义。

如何为您提供帮助？

TÜV南德意志集团是一家全球认可的公告认证机构，能够针对建筑设施开展客观公正的检验、测试与认证服务。我们的专家掌握各种工程规范及技能，能够提供综合全面的咨询服务，在不同MEP设计人员之间就沟通问题进行调节，协调安装过程中所有设计人员的工作。

为了获得服务，客户需要明确未来建筑使用目标，并且/或者提供技术文件，明确显示出现有建筑服务的设计和安装标准（例如：美国、中国或欧洲标准）。

我们提供的MEP系统服务

■ 测试与检验

我们开展启动前调试测试、现场检验、功能测试和竣工后验收测试。专业领域覆盖技术设施的方方面面，如加热、通风和空调（HVAC）系统、卫生系统、制冷系统、高/低压系统、过压保护设备、应急电源系统、防雷系统、机械、报警系统（如消防警报系统、扬声器报警系统）、烟雾和抽汽供热机组、消防设备及防火屏障、仪器及控制系统以及建筑自动化系统。此外，还包括热能工程产品，如加热锅炉、燃气空气加热器和关闭装置。

■ 认证

TÜV南德意志集团是一家全球认可认证机构，能够提供消防警报系统，电网兼容性、消防、通风、制冷与空调系统以及数据中心能源效率认证服务。我们在整个认证流程和合同有效期间提供跨领域咨询服务。



▪ **Assessments and technical advisory services**

Our experts assess and advise on the development of power supply schemes, security of power supply, safety and protection schemes for fire and explosion, design of emergency escape lighting systems, EMC-oriented lightning and overvoltage protection, energy efficiency, technical infrastructure in data centres, as well as power generation and supply systems for renewable sources of energy. We also provide facility management support for the optimisation of building services installations, including recommendations for preventive action and cost-effective repair measures.

Your business benefits

- **Save money** – by implementing the best procedures for your systems, ensuring energy efficiency and cost savings.
- **Minimise risk** – with our knowledge of technical guidelines, regulations and standards, which will resolve any unclear issues and reduce your liability risk.
- **Gain a competitive edge** – by building a trusted brand based on the service availability and safety of your facilities.
- **Tailor your solutions** – with customer-focussed solutions designed for the specific needs of each stakeholder.

Why choose TÜV SÜD?

TÜV SÜD has decades of international experience providing testing, inspection and certification services for buildings, infrastructure and industrial facilities. As a neutral third-party organisation, we provide impartial and unbiased inspection and assessment services on which you can base your decisions. We are well versed in all relevant mechanical, electrical and environmental engineering disciplines, providing you with a one-stop source for solutions and interdisciplinary expertise.

▪ **评估和技术咨询服务**

我们的专家针对供电方案的开发、电源的安全性、消防和爆炸安全性与保护方案、紧急疏散照明系统设计、照明与过压保护电磁兼容性、能源效率、数据中心技术基础设施以及可再生能源发电和供电系统进行评估，并提供专业意见。此外，我们还为建筑服务设施的优化提供设施管理支持，其中包括提供关于预防性措施和能源效率修复方法等建议。

客户业务收益

- **节约成本**——运用适合具体系统的最佳程序，确保能源效率，节约成本。
- **降低风险**——借助我们的技术指南、规范与标准专业知识，解决问题，确保符合国家和国际立法，将风险降至最低。
- **获得竞争优势**——在服务和设施安全性的基础上打造值得信赖的品牌。
- **提供定制化解决方案**——针对客户需求制定解决方案，满足各利益相关者的特定需求。

为什么选择TÜV南德意志集团?

TÜV南德意志集团拥有数十年国际资深经验，为建筑、基础设施和工业设施提供测试、检验和认证服务。作为一家中立的第三方组织机构，我们根据客户需求，提供客观公正的检验与评估服务。TÜV南德意志集团资深专家精通所有相关机械、电气和环境工程规范，为客户一站式解决方案和跨学科专业知识咨询服务。

The international reputation of the TÜV SÜD brand ensures that our reports and certificates meet with a high level of acceptance globally. In addition, our experts are represented on site around the world and are familiar with both international and local requirements.

Choose certainty. Add value.

TÜV SÜD is a premium quality, safety and sustainability solutions provider that specialises in testing, inspection, auditing, certification, training and knowledge services. Represented in over 850 locations worldwide, we hold accreditations in Europe, the Americas, the Middle East, Asia and Africa. By delivering objective solutions to our customers, we add tangible value to businesses, consumers and the environment.

TÜV南德意志集团品牌的国际声誉能够确保我们的报告和证书符合全球较高的验收标准。除此以外，我们的专家熟悉国际法规和要求，能够到达现场提供测试、认证服务。

权威认证，创享价值

TÜV南德意志集团是一家优质、安全和可持续发展的专业测试、检验、审核、认证、培训和知识服务解决方案提供商。我们在全球拥有超过850个分支机构，在欧洲、美洲、中东、亚洲和非洲均享有认证资格。通过为我们的客户提供客观的解决方案，我们为企业、消费者和环境都增添了有形价值。

Related services

TÜV SÜD provides the following related services:

- MEP design and consultancy services
- Civil and structural engineering services
- Energy efficiency for buildings
- Lift and escalator services
- ISO 9001 – Quality management system certification
- ISO 50001 – Energy management system certification
- OHSAS 18001 – Occupational health and safety management system certification

相关服务

TÜV南德意志集团提供以下相关服务：

- MEP设计与咨询服务
- 土木及结构工程服务
- 建筑的能源效率
- 电梯和自动扶梯服务
- ISO 9001质量管理体系认证
- ISO 50001质量管理体系认证
- OHSAS 18001 职业健康安全管理体系认证

* Some of the services listed are provided due to local regulations only and may not be available in other regions. Please contact us for further details.

* 上述部分服务可能由于当地法规的原因而无法在您的地区提供。欢迎您与我们联系咨询。

Our branches in Greater China:

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