



ATEX
made easy



ATEX made easy

The new ATEX Directive 137|138 has been in effect since July 1, 2003.

This Directive is based on Article 95 of the EC Treaty (formerly Article 110a), which applies primarily to manufacturers of explosion-protected equipment and describes guidelines for the design and workmanship of such equipment, and of protection systems for use in hazardous areas.

ATEX Directive 137|138 applies to operators of explosion-protected equipment, and specifies employee safety requirements and safety regulations for installation in hazardous areas.

Sartorius offers comprehensive support in ATEX compliance, ranging from expert consultation to products that meet your individual requirements, including documentation, and rounded off by professional service to ensure smooth and trouble-free realization of your projects.

As an international company, Sartorius also has product approvals from FM|CSA and other organizations.

We have the answers to all your questions

... How have regulations changed since July 1, 2003?

... What new conditions must be observed when existing installations are repaired?

... Which mechatronic components can be integrated into existing systems?

... and many more.

Today, generating the documents required for explosion-protected equipment is as important for the equipment operator as choosing the right hardware.

Sartorius delivers "Verification of Intrinsic Safety" information with each product ex factory, free of charge, as a required part of the documentation for hazardous areas.

And that's not all.

You can combine Sartorius components for a complete solution, and we will supply intrinsic safety verification that applies to the entire system.

The advantages are clear:

No expensive, time-consuming tests to determine compatibility of individual components from different manufacturers!

Just file the "Verification of Intrinsic Safety" with your other explosion-protection documents, and you are ready to go!



Zone 1 - Gases

An area in which an explosive atmosphere, consisting of a mixture of air and flammable substances in the form of gas, vapor or mist, is likely to occur occasionally in normal operation.

Zone 21 - Dusts

An area in which an explosive atmosphere in the form of a cloud of combustible dust in air is likely to occur occasionally in normal operation.



Zone 2 - Gases

An area in which an explosive atmosphere, consisting of a mixture of air and flammable substances in the form of gas, vapor or mist, is not likely to occur in normal operation but, if it does occur, will persist for a brief period only.

Zone 22 - Dusts

An area in which an explosive atmosphere in the form of a cloud of combustible dust in air is not likely to occur in normal operation but, if it does occur, will persist for a brief period only.

Hazardous area

Modularity

Because our components are designed to work together in a variety of combinations, you can put together a system that meets your requirements perfectly.

As the customer, you have the final word on:

- Functionality
- Performance
- Version

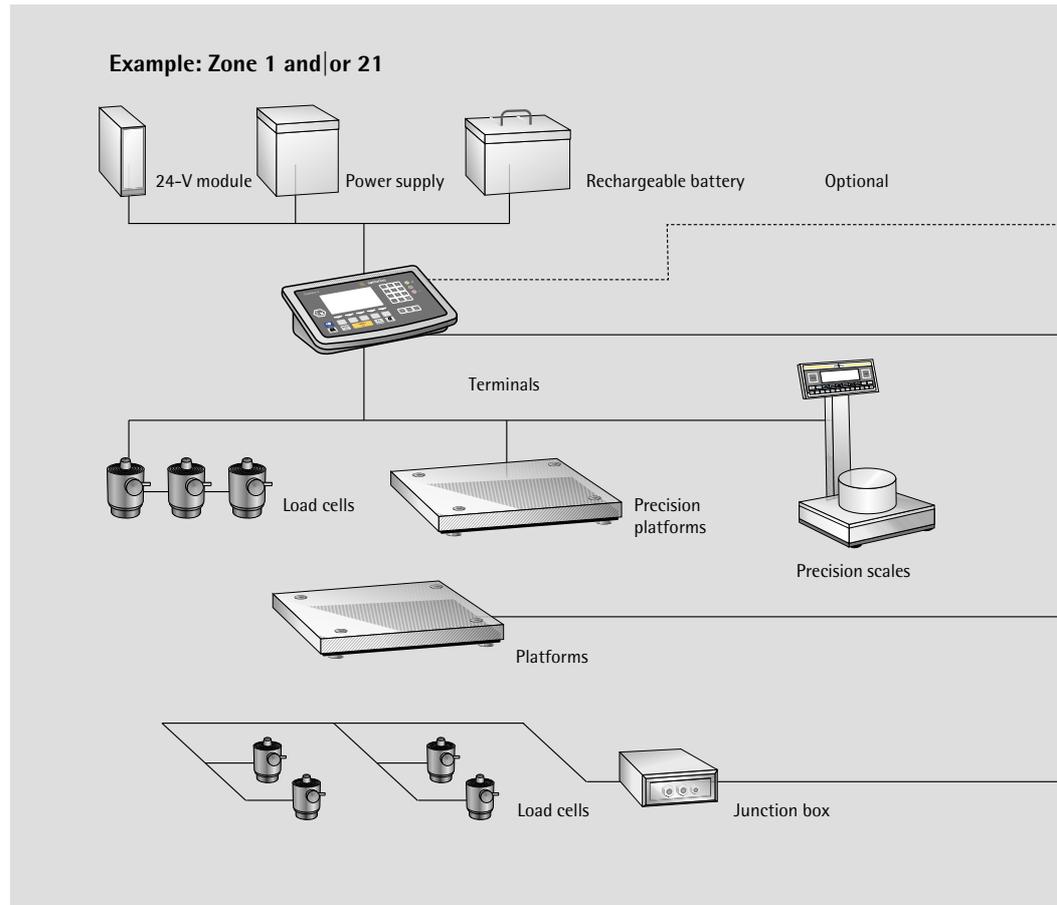
You are sure to find all the equipment you need among the comprehensive range of products offered by Sartorius. When components from different manufacturers are "thrown together" in a single system, there is usually considerable extra work involved in making the components compatible and in generating the required documents.

When you get all your equipment from a single source, this extra work is unnecessary, especially with regard to the explosion safety documents.

Adaptable

Potentially explosive atmospheres usually occur in conjunction with aggressive ambient conditions. This is why many of the product series from Sartorius include a choice of construction materials without limiting the combination options:

- AISI 304, standard
- AISI 304, electropolished
- AISI 304, bead-blasted
- AISI 316 Ti, electropolished
- Painted or epoxy resin coated



Hazardous area

Service

It is important to us at Sartorius that the service we offer is easily accessible to all our customers.

At Sartorius, service means:

Application-oriented, expert consultation in weighing and process technology

Qualification in accordance with GLP|GMP based on our IQ|OQ|PQ standard operating procedures

Documentation and certification of your weighing equipment

Accreditation for determining the uncertainty of measurement according to DKD requirements, from microbalances up to 3-t platform scales

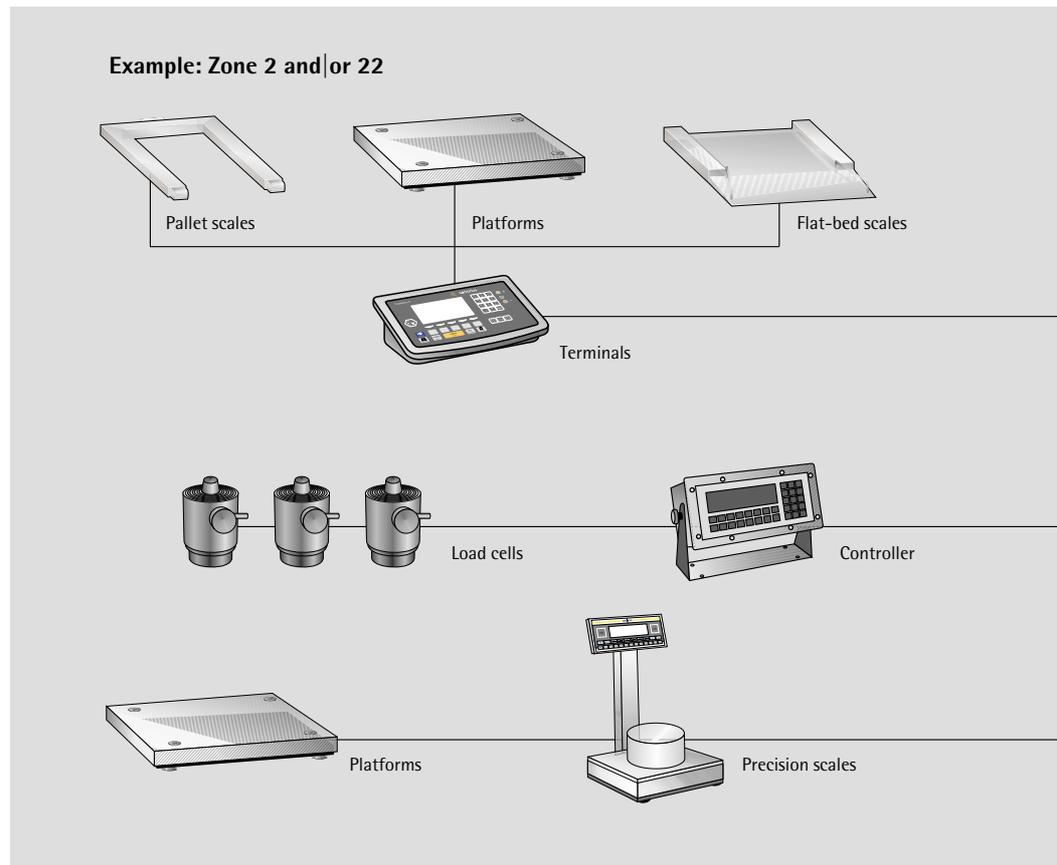
Maintenance, repairs and spare parts

Online service

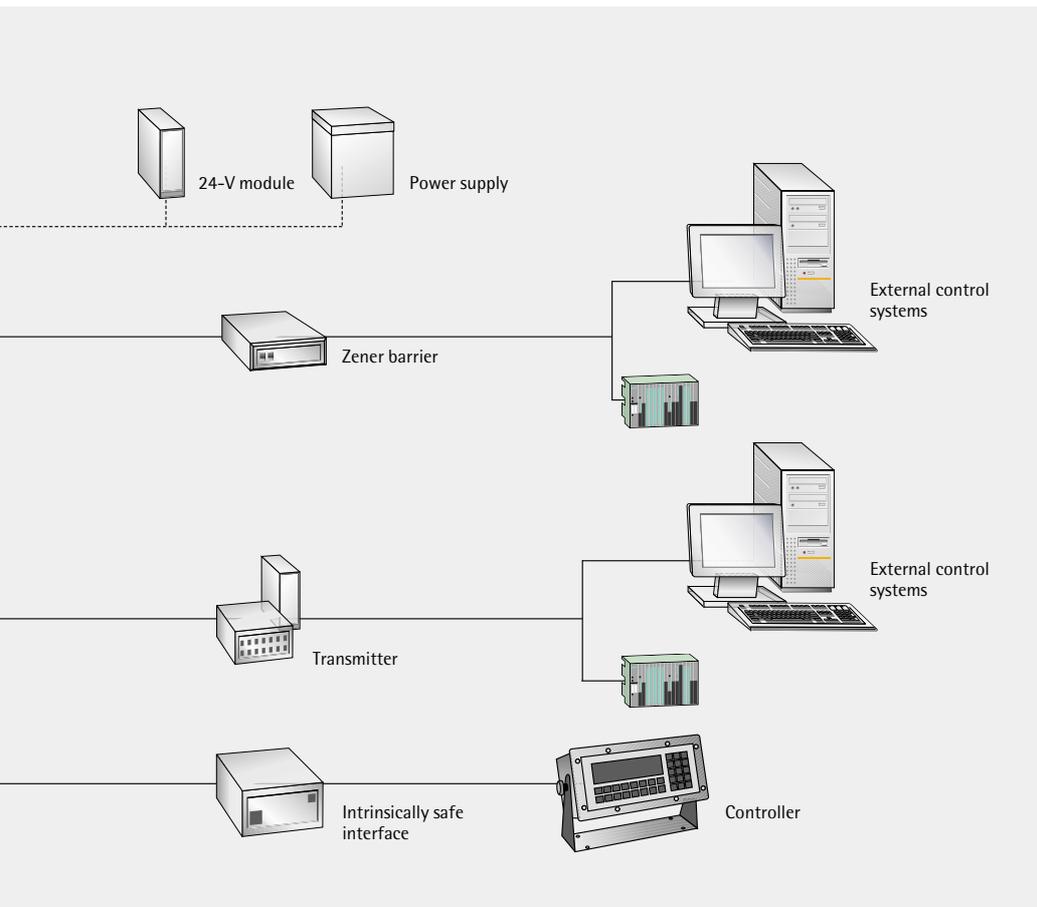
Product training

Preparation for verification, monitoring of verification, initial verification

Service and maintenance contracts



Non-hazardous area



Communication

Documentation, rapid collection of weights and determination of production status, data transfer over long distances: these requirements are particularly relevant for weighing in hazardous areas.

- RS-232C
- RS-485
- RS-422
- Profibus-DP
- Network-capable (up to 8 units)

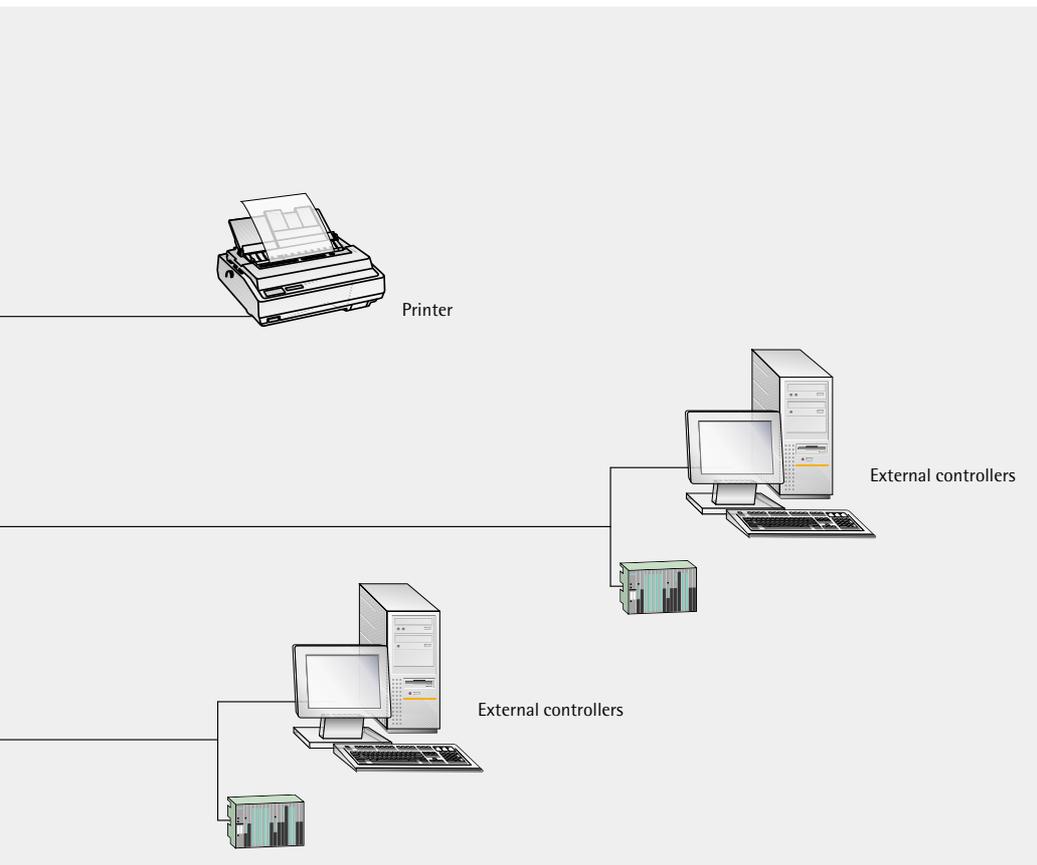
Applications

Practical functions and applications are available to optimize your weighing operations for fast, efficient and error-free process sequences:

- Batching
- Filling
- Formulation
- Mixing
- Checkweighing
- Classification

...and more.

Non-hazardous area



Documentation

The Flex Print function for individualized formatting of printouts is installed on most of our terminals at the factory, and lets you create descriptive printouts that are customized for your particular company. For example, you can integrate your company's logo and full address on the printout. Moreover, you can adapt printouts to existing labels, and even create bar code printouts for scanning in tare or reference weights.

Just ask your local Sartorius sales representative about generating customized printouts.



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