# INTERNATIONAL STANDARD

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## Modular component interfaces for surface-mount fluid distribution components –

## Part 1:
## Elastomeric seals



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

# MODULAR COMPONENT INTERFACES FOR SURFACE-MOUNT FLUID DISTRIBUTION COMPONENTS –

## Part 1: Elastomeric seals

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International Standard IEC 62339-1 has been prepared by subcommittee 65D: Analysing equipment, of IEC technical committee 65: Industrial-process measurement and control.

This standard cancels and replaces IEC/PAS 62339-1 published in 2003. This first edition constitutes a technical revision.

The text of this standard is based on the following documents:

| FDIS | Report on voting |
|---|---|
| 65D/130/FDIS | 65D/131/RVD |

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

A bilingual version of this publication may be issued at a later date.

# MODULAR COMPONENT INTERFACES FOR SURFACE-MOUNT FLUID DISTRIBUTION COMPONENTS –

## Part 1: Elastomeric seals

## 1 Scope and object

This International Standard applies to all types of surface-mount fluid distribution components with elastomeric sealing devices used within process analyser and sample-handling systems. This includes components such as valves, filters, regulators, transducers, and controllers.

The scope of this standard is limited as follows.

a) This standard addresses only surface-mount fluid distribution components and proper sealing methods. This standard is limited to sealing methods using elastomeric material for the seals.

b) The designs of the actual system components and the flow substrate are not specified in this standard. Any indication of mounting direction or other indexing is left to the manufacturer as required for its equipment.

c) Users shall be aware that, on the basis of the stream conditions of their processes, other technologies and components may be readily available.

d) This standard does not address the effects of various stream conditions on the technical functionality of the component.

e) This standard does not address maintenance concerns for the components.

f) This standard does not refer to design issues pertaining to specific safety requirements. These issues should be referenced to other standards, organizations, and recommended guidelines.

g) International, national, and local codes, regulations, and laws should be consulted to ensure that each component meets the user's regulatory requirements.

The object of this standard is to establish properties and physical dimensions that define the interface for surface-mount fluid distribution components with elastomeric sealing devices used within process analyser and sample-handling systems. The interface controls the dimensions and location of the sealing surfaces to allow change of just one element of the system without modification of the entire system. This is what makes the system modular from both a design and a maintenance standpoint.

## 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ANSI/ISA-76.00.02:2002, *Modular Component Interfaces for Surface-Mounted Fluid Distribution Components – Part 1: Elastomeric seals*