



TECHNICAL REPORT



**Current and voltage sensors or detectors, to be used for fault passage indication purposes –
Part 100: Requirements and proposals for the IEC 61850 series data model extensions to support fault passage indicators applications**

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

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FOREWORD

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IEC TR 62689-100, which is a Technical Report, has been prepared by IEC technical committee 38: Instrument transformers, in cooperation with TC 57: Power systems management and associated information exchange.

The text of this Technical Report is based on the following documents:

Enquiry draft	Report on voting
38/499/DTR	38/519/RVC

Full information on the voting for the approval of this technical report 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.

A list of all parts in the IEC 62689 series, published under the general title *Current and voltage sensors or detectors, to be used for fault passage indication purposes*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC website 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- withdrawn,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.

IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

INTRODUCTION

This part of IEC 62689 has two main framework constraints with editorial and technical impacts as

- this document will be merged with IEC TR 61850-90-6¹: IEC TR 62689-100 will exactly stick with the targeted document structure and principles, and
- this document intends to prepare the content of the future IEC 62689-3² which will directly rely on the functional requirements expressed in IEC 62689-1 and IEC 62689-2.

¹ Under preparation. Stage at the time of publication: IEC PWI 61850-90-6:2016.

² Under preparation. Stage at the time of publication: IEC PWI 62689-3:2016.

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1 Scope

This part of IEC 62689, which is a Technical Report, was prepared jointly with TC 57 with the scope to prepare requirements and proposals for the IEC 61850 series data model extensions to support fault passage indicators (all classes and extended functions) applications to be introduced in the future IEC 61850-90-6 and that, in turn, will be needed for the preparation of the future IEC 62689-3.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

IEC TS 61850-2, *Communication networks and systems in substations – Part 2: Glossary*

IEC 61850-7-2, *Communication networks and systems for power utility automation – Part 7-2: Basic information and communication structure – Abstract communication service interface (ACSI)*

IEC 61850-7-4, *Communication networks and systems for power utility automation – Part 7-4: Basic communication structure – Compatible logical node classes and data object classes*

IEC 62689 (all parts), *Current and voltage sensors or detectors, to be used for fault passage indication purposes*

IEC 62689-1, *Current and voltage sensors or detectors, to be used for fault passage indication purposes – Part 1: General principles and requirements*

IEC 62689-2, *Current and voltage sensors or detectors, to be used for fault passage indication purposes – Part 2: System aspects*