

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Control systems in the process industry – Electrical and instrumentation loop check

Systèmes de commande pour les procédés industriels – Contrôle de boucle des circuits électriques et des appareillages





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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**CONTROL SYSTEMS IN THE PROCESS INDUSTRY –
ELECTRICAL AND INSTRUMENTATION LOOP CHECK**

FOREWORD

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International Standard IEC 62382 has been prepared by subcommittee 65E: Devices and integration in enterprise systems, of IEC technical committee 65: Industrial-process measurement, control and automation.

This second edition cancels and replaces the first edition published in 2006. This edition constitutes a technical revision.

The main changes with respect to the previous edition are listed below:

- The definition of the documents mentioned in the standards is in accordance with IEC 62708: *Documents for Electrical and Instrumentation Projects in the Process Industry*.
- Subclause 6.3 has been revised.

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

FDIS	Report on voting
65E/271/FDIS	65E/282/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.

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INTRODUCTION

The inspection and verification of the individual measurements and controls in conjunction with the control systems used to monitor these devices (DCS, PLC, etc.) is referred to as loop check. In industry, numerous methods and philosophies are used to check the instrumentation and controls after mechanical installation within projects for modified or new facilities.

This standard was created to provide a better understanding of what loop check consists of and also to provide a standard methodology for executing a loop check.

The annexes of this standard contain forms which may be used in the check procedures. Buyers of this standard may copy these forms for their own purposes only in the required amount.