

INTERNATIONAL STANDARD

NORME INTERNATIONALE

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

Systèmes de commande dans l'industrie de transformation – Contrôle de boucle des circuits électriques et des appareillages



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

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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. It is an International Standard.

This third edition cancels and replaces the second edition published in 2012. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) general re-organization of the content of the previous edition, moving informative content to the annexes;
- b) replacing the forms based on I/O type in IEC 62382:2012, Annex A to Annex E with an example of a generic loop check form;

c) providing additional references to other applicable standards.

The text of this International Standard is based on the following documents:

Draft	Report on voting
65E/1082/FDIS	65E/1114/RVD

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

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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 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 document 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.

Annex A provides examples of checks for various loop components to aid the user in establishing the desired loop check plans for a specific project. Annex B provides an example of a loop check form.