AS/NZS IEC 60079.25:2022 IEC 60079-25:2020





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Part 25: Intrinsically safe electrical systems



AS/NZS IEC 60079.25:2022

This Joint Australian/New Zealand Standard[™] was prepared by Joint Technical Committee EL-014, Equipment for Explosive Atmospheres. It was approved on behalf of the Council of Standards Australia on 2 February 2022 and by the New Zealand Standards Approval Board on 2 February 2022.

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Preface

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-014, Equipment for Explosive Atmospheres, to supersede AS/NZS 60079.25:2011.

The objective of this document is to provide the specific requirements for design, construction and assessment of intrinsically safe systems, Type of Protection "i", intended for use, as a whole or in part, in locations in which the use of Group I, II or III Ex Equipment is required.

This document is intended for use by the designer of the system, e.g. a person who could be a manufacturer, a specialist consultant or a member of the end-user's staff.

This document supplements and modifies the general requirements of AS/NZS IEC 60079.0 and the intrinsic safety standard AS/NZS 60079.11. Where a requirement of this document conflicts with a requirement of AS/NZS IEC 60079.0 or AS/NZS 60079.11, the requirement of this document takes precedence.

The installation requirements of Group II or Group III systems designed in accordance with this document are specified in AS/NZS IEC 60079.14. Group I installation requirements are presently not provided in <u>AS/NZS IEC 60070.14</u>. Installation requirements for Crown Lore being considered.

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EXPLOSIVE ATMOSPHERES –

Part 25: Intrinsically safe electrical systems

FOREWORD

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The significance of the changes between IEC 60079-25, Edition 2 (2010) and IEC 60079-25, Edition 3 (2019) are as listed below: