

GENERAL SPECIFICATION

TELECOMMUNICATIONS

GS EP TEL 141

Perimeter Intrusion Detection System

00	10/2017	First issue
Rev.	Date	Purpose of the revision

Owning entity: SG/ISB	Managing entity: SG/ISB/SURF
Other Approving entity(ies):	

General Specification		GS EP TEL 141
Perimeter Intrusion Detection System		
Rev.: 00	Effective date: 10/2017	Page: 2 of 11

Contents

1. Scope	4
2. Reference documents	4
3. Design conditions	5
3.1 Principle	5
3.2 Hazardous areas	5
3.3 Parameters	5
4. PIDS technologies definition	6
4.1 Fiber optic	6
4.2 RF systems	6
4.3 IR systems	6
4.4 Video systems – Motion detection	6
4.5 Others	6
5. Specification & Installation	7
5.1 Alarms	7
5.2 Tamper detection	7
5.3 Installation and Housing	8
5.4 IP address allocation	8
5.5 Installation, backup and restore	8
5.6 Licences	8
5.7 Availability	8
5.8 Cabling	8
5.9 Electrical power	8
5.10 Equipment numbering	8
6. Interfaces	9
7. Supervision and Monitoring tools	9
8. Quality assurance	9
8.1 Factory acceptance test	9
8.2 Commissioning	10



General Specification		GS EP TEL 141
Perimeter Intrusion Detection System		
Rev.: 00	Effective date: 10/2017	Page: 3 of 11

Appendix 1	Glossary.....	11
------------	---------------	----

General Specification		GS EP TEL 141
Perimeter Intrusion Detection System		
Rev.: 00	Effective date: 10/2017	Page: 4 of 11

1. Scope

The purpose of this general specification is to define the minimum requirements for design, manufacture, installation and testing of a Perimeter Intrusion Detection System for onshore and offshore installations.

2. Reference documents

The reference documents listed below form an integral part of this General Specification.

External Documents

Unless otherwise stipulated, the applicable version of these documents, including relevant appendices and addendums, is the latest revision published at the effective date of this document.

Reference	Title
Directive 94/9/EC	Directive 94/9/EC of the European Parliament and the Council of 23 March 1994 on the approximation of the laws of the Member States concerning equipment and protective systems intended for use in potentially explosive atmospheres
IECEX 01	IEC System for Certification to Standards relating to Equipment for use in Explosive Atmospheres (IECEX System) - Basic Rules

Total General Specifications

Unless otherwise stipulated, the applicable version of these documents, including relevant appendices and addendums, is the latest revision published.

Reference	Title
GS EP EXP 101	Pre-commissioning and Commissioning specification
GS EP EXP 103	Pre-commissioning and Commissioning engineering and preparation
GS EP EXP 105	Pre-commissioning Execution
GS EP EXP 107	Commissioning Execution
GS EP TEL 410	Installation rules
GS EP TEL 414	Telecommunication cables
GS EP DEV 001	Asset Objects Tagging
GS EP SAF 216	Area classification