

GENERAL SPECIFICATION

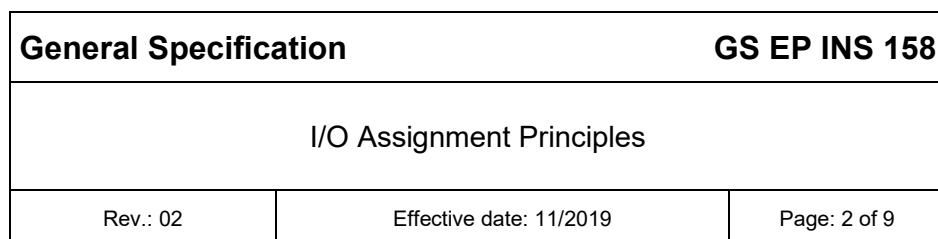
INSTRUMENTATION

GS EP INS 158

I/O Assignment Principles

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1. Scope

This document defines the minimum requirements for the assignment of the input and output signals for the ICSS and P3 Packages for onshore and offshore oil and gas installations.

This document shall be read in conjunction with **GS EP INS 134** and **GS EP INS 110**.

2. Reference documents

This document is the TOTAL E&P transposition of the TOTAL S.A. Harmonized GS GR INS 501.

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
Not applicable	

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 INS 103	Instrument Database Management
GS EP INS 110	Instrumentation for package units
GS EP INS 134	Design and supply of integrated control and safety system
GS EP INS 198	Safety and Fire & Gas Standard Functions

3. Applicability

This specification is applicable to ICSS including remote I/O, electronic marshaling and P3 Package UCP.

This specification is applicable to onshore and offshore oil and gas installations.