

H.I.P.S (High Integrity Protection System)



safety solutions

oil & gas

pharmaceutical

nuclear

power & utilities



UNITED KINGDOM

Coventry

Serck Controls Ltd
Rowley Drive, Coventry CV3 4FH
Ph +44 (0)2476 305050
Fx +44 (0)2476 2437
info@serck-controls.co.uk

Luton

Serck Control & Safety Ltd
Dencora Way Luton LU3 3HP
Ph +44 (0)1582 509900
Fx +44 (0)1582 509901
info@controlandsafety.com

AUSTRALIA

Newcastle (Head Office)

Ph +61 2 4941 1211
Fx +61 2 4954 3543
headoffice@serck-controls.com.au

Perth

Ph +61 8 9344 9000
Fx +61 8 9344 4620
perth@serck-controls.com.au

MIDDLE EAST

Dubai

United Arab Emirates
Ph +9714 883 4083
Fx +971 4 883 4084
middleeast@serck-controls.com.au

Introduction

High Integrity Protection Systems are engineered using Orbus® hard wired safety system modules to the Customer's application needs. Logic and output use modules with TUV certification to DIN V 19250 AK6. Analogue inputs use SIRA certified modules with reliability and safe failure fraction in excess of that required for IEC61508 SIL3.

System Description

Serck Control and Safety (SCS)'s HIPS systems have been supplied for a number of onshore and offshore applications.

Frequently these are for Pressure Protection (HIPPS) installed on the inlet manifold of onshore and offshore Oil and Gas installations.

These systems have been used as a diverse solution by several major safety system integrators. ABB, Honeywell and Silvertch systems are installed on ConocoPhillips Jade Platform, BP Foinaven FPSO and Leadon FPSO plus both onshore and offshore at Shah Deniz.

Housing

The HIPS system may be supplied in 19" rack form with flying leads or mounted into a wall box or cabinet as required.

Implementation

HIPS systems are engineered using an established template following our internal procedures for safety systems. These procedures have been accredited by SIRA on behalf of CASS and found to be suitable for use on safety systems to IEC61508 SIL3.

Features

- Two out of three voted analogue Inputs
- Output(s) powered in process normal
- Auxiliary volt free contact outputs
- Serial communications option using a subset of MODBUS RTU
- Optional redundant logic and outputs to increase availability
- Optional valve stroke testing using SIRA certified modules

Why Serck

- Diverse Logic solver
- Cost Effective
- High Plant Availability
- Flexible Design