

## INSTRUMENT ENCLOSURES

THE ENCLOSURES HAVE BEEN DESIGNED TO PROTECT FIELD INSTRUMENTS AND ASSOCIATED EQUIPMENT FROM THE DAMAGING EFFECTS OF INGRESS OF SAND, WIND, RAIN, AND SNOW AT ELEVATED AND SUB-ZERO TEMPERATURES

THE ENCLOSURE BASE PLATE ALLOWS FOR EASY PRE-ASSEMBLY, OR SITE INSTALLATION OF A VARIETY OF INSTRUMENT HOOK-UPS.



MEETING NEEDS, EXCEEDING EXPECTATIONS

PROCESS INTERFACE VALVES

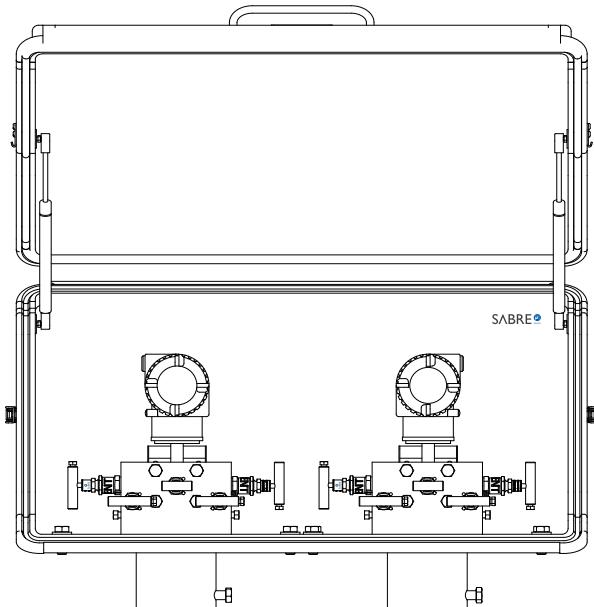
INSTRUMENT VALVES & MANIFOLDS

DOUBLE BLOCK & BLEED VALVES

MODULAR MOUNTING SYSTEMS

INSTRUMENT ENCLOSURES

CRYOGENIC DBB



## INSTRUMENT ENCLOSURES



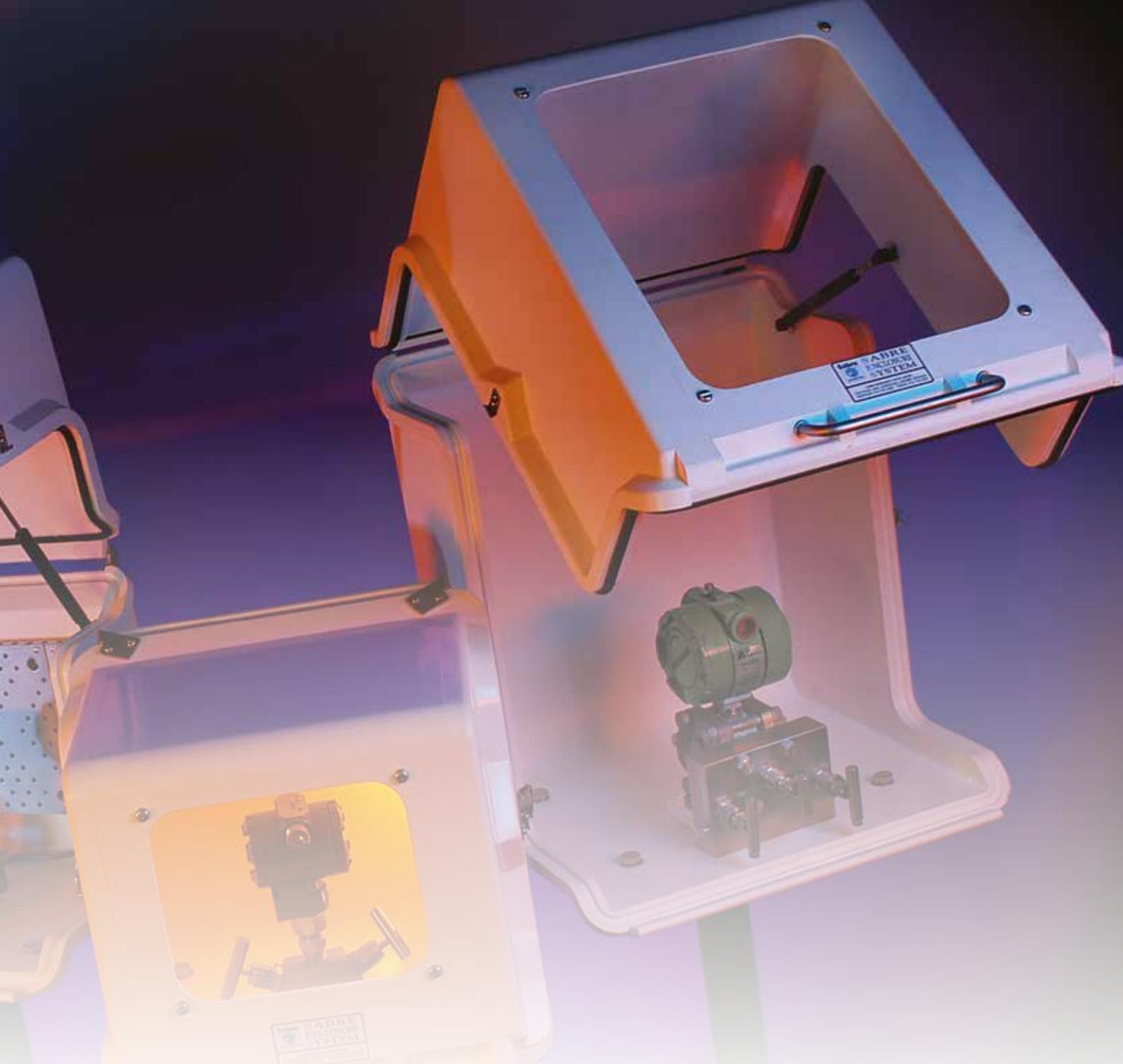
SABRE HAS EXTENSIVE EXPERIENCE IN THE FACTORY FITTING OF FREE-ISSUE INSTRUMENTS – ENABLING US TO SUPPLY COMPLETE, FULLY ASSEMBLED AND READY-TO-USE UNITS DIRECTLY TO SITE.

OUR PHILOSOPHY IS TO WORK CLOSELY IN PARTNERSHIP WITH OUR CUSTOMERS TO ENSURE THAT WE CONTINUE TO MEET THEIR NEEDS AND EXCEED THEIR EXPECTATIONS.

### INSTRUMENT ENCLOSURE SYSTEM

The ever increasing sophistication of process instrumentation equipment demands the highest standards of instrument protection. Operators need to ensure that process integrity is maintained throughout a wide range of environmental conditions, many of these are extremely damaging to unprotected equipment.

To help achieve this objective Sabre has developed a range of high integrity instrument enclosures and associated instrument protection products. The Sabre Instrument Enclosure range offers a number of key benefits to the process operator, not least robust construction, advanced materials technology and a choice of equipment options designed to withstand the harshest of application environments.



Sabre enclosures protect electronic, mechanical, hydraulic and pneumatic instruments and associated equipment from accidental damage and the effects of the external environment for both onshore and offshore installations, so extending their operational life and minimising the cost of ownership. Process measurements are maintained at consistent levels through the thermal stability offered by the enclosure.

All Sabre enclosures incorporate a number of design features

to help promote long life and ease of use. Enclosure bodies are manufactured from high strength materials using precision mould press tooling to ensure repeatability and a close-tolerance fit. All metal goods are made from corrosion resistant materials and gas strut technology is employed to provide a smooth and controlled opening and closing action.

Enclosures can be fitted with a number of options including: viewing windows, heaters/thermostats, junction boxes, isolators, vents, and thermal

insulation materials and are able to accommodate a comprehensive range of integral base or back mounted instrument manifolds.

Sabre has extensive experience in the factory fitting of free-issue instruments – enabling us to supply complete, fully assembled and ready-to-use units directly to site. This results in lower overall procurement costs, improved installation times and high system integrity and reliability.

## ENCLOSURE MANIFOLDS

The Sabre range of enclosure manifolds are specifically designed for use within Sabre enclosures.

Base or back mounted to the enclosure, and designed to enable all process connections to be made from the outside, whether manifolds are back or base mounted.

Connections are made directly to the manifold block through the mounting plate. This eliminates the need for extra bracketing and reduces installation and maintenance costs. They are suitable for direct mounting D.P. and single pressure transmitters. Supplied with PTFE seal rings and transmitter mounting bolts as standard.

## 2, 3 4 & 5 VALVE MANIFOLDS AVAILABLE



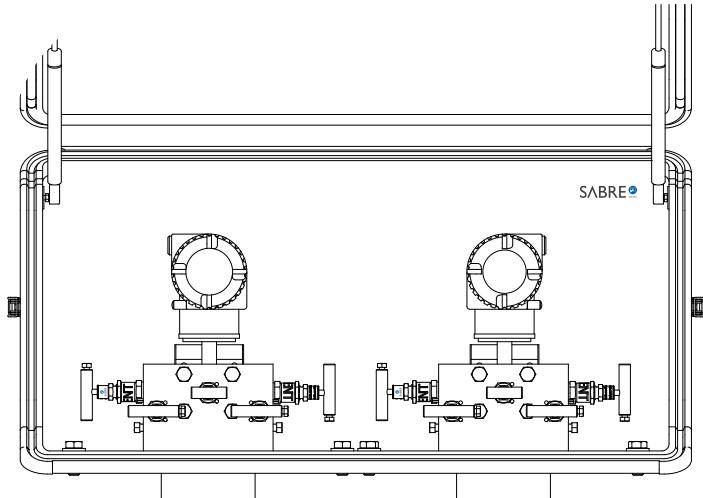
## IEX1 ENCLOSURE FOR SINGLE INSTRUMENTS

## IEX2 ENCLOSURE FOR LARGER INSTRUMENTS/GAUGES

## IEX3 ENCLOSURE FOR MULTIPLE INSTRUMENTS

## ENCLOSURE FEATURES & SPECIFICATIONS

- Precision GRP Enclosure mouldings
- Side-Loaded Lid Hinges
- Safety Toggle Latches
- Improved Temperature Control
- Resilient Enclosure Joint Seal
- Instrument Viewing Windows
- Safe operation Gas Propstays
- Integral Instrument Manifolds
- Designed to IP66 specifications





## ENCLOSURE ACCESSORIES

### VIEWING WINDOWS

- Transparent acrylic
- Reinforced glass (anti-static)
- Hermetically sealed

### CABLE ENTRIES

- IP66 Grommets
- IP66 Cable glands
- IP66 Gland plates

### VENTILATION

- Ventilators
- Louvres

### ENCLOSURE MOUNTING OPTIONS

- Pipestand Mounting
- Wall Mounting
- Instrument Mounted

### INSULATION

- 20mm Standard
- Taped Seams
- Reflective foil finish for superior k factor

### ANTI STATIC

- Graphite impregnated GRP

### HEATING

- Integral steam channel in integral manifolds
- Steam heating coils
- Non hazardous area electrical space heaters
- Zone 1 & Zone 2 hazardous area space heaters
- Non hazardous area variable thermostats
- Zone 1 & Zone 2 hazardous area junction boxes and fixed thermostats

### INTERNAL INSTRUMENT MOUNTING

- Pipestand Mounting
- Vertical Mounting Plate
- Internal Back Mounting Plate

## QUALITY, SAFETY AND ENVIRONMENT

**Sabre is committed to achieving the highest possible standards of quality, safety and environmental management. Our management policies, systems and operating procedures are independently audited and verified by BSI against the relevant international standards.**

All aspects of the tender, sales, design, manufacturing and delivery process are controlled by quality management systems accredited to **ISO 9001**.

Where applicable valve designs are verified and qualified to the **PRESSURE EQUIPMENT DIRECTIVE 97/23/EC MODULE H**.

Sabre is a registered supplier with **1ST POINT ASSESSMENT (REF NUMBER 10042400) AND ACHILLES (ID 25251)**.

Health & Safety systems, independently accredited to **OHSAS 18001**, are used to ensure that all our business activities are carried out in a manner that protects the safety and welfare of employees, suppliers, customers, equipment users and the wider public.

At Sabre, we operate in strict accordance with the requirements of the Environmental Management standard **ISO 14001**.



FOR DETAILED INFORMATION AND TECHNICAL SPECIFICATIONS VISIT, OR TO DISCUSS A PARTICULAR PROJECT REQUIREMENT CONTACT OUR SPECIALIST SALES ENGINEERS.

SUPPORTING OPERATORS, PROJECTS AND DISTRIBUTORS  
ON A GLOBAL BASIS



**SABRE**   
VALVES.COM

MEETING NEEDS, EXCEEDING EXPECTATIONS