

Prefabricated Instrumentation Enclosures for Gas Transmission Systems

Potterton Commercial is the market leader in the design and manufacture of prefabricated boiler systems for natural gas heating in gas transmission networks. The company has over 20 years experience in this highly specialised field with over 300 successful installations with outputs from 6kW to 18MW.

To compliment the pre fabricated boiler house applications Potterton Commercial have developed combined boiler and instrument enclosures and stand alone prefabricated Instrumentation enclosures offering clients the benefits of our superior enclosure design.

Features

The Enclosure

- Compact design - minimises site space required for installation.
- Self contained enclosure - factory complete enclosure including insulated galvanised base, galvanised superstructure, architectural cladding panels and anti slam aluminium doors.
- Quality finish - architectural insulated steel building panels available in a wide range of colours. The panels have a high level of colour stability, are durable and are resistant to mould and mildew.
- Fire Resistance - the external and internal faces of the architectural panels are class O in accordance with the building regulations when tested to BS476: part 6 1989 and part 7:1987 and have passed all the requirements of LPS 1181: 2003: part 1: issue 1 wall lining test.
- Wind Loading – the enclosure is designed to withstand wind loadings in accordance with BS 6399 Pt.2.
- Manufactured to ISO9001 quality systems – quality guarantee with comprehensive documentation and certification.
- 25+ year design life.
- Proven product - backed by extensive experience and expertise developed through HAZOP analysis and supported by our service organisation.



12m x 4m Combined boiler house & instrument enclosure

The Electrical Installation

- Factory complete electrical installation - including power distribution, lighting, telemetry, heating and ventilation.
- Electrical design – in house design by qualified professionals, design calculations issued for compliance with BS7671.
- Equipment mounting – the enclosure walls are internally lined with melamine board for easy installation of wall mounted equipment.
- Equipment wiring - the enclosure incorporates containment for internal wiring and floor gland plates for cable entry.



Internal view 4m x 4m instrument room

Prefabricated Instrumentation Enclosures for Gas Transmission Systems

The Benefits

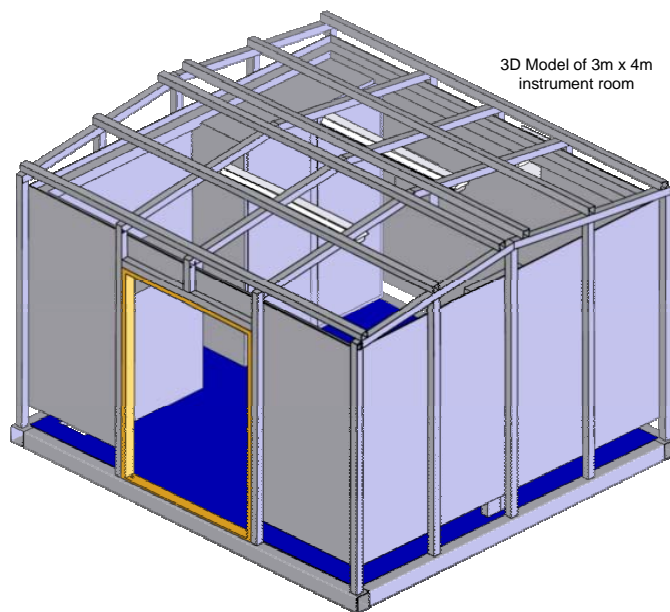
- Cost savings over traditional on site housing erection and installation of electrical and Instrumentation equipment.
- 3D modelled mechanical design for accurate on time manufacture bespoke to clients requirements.
- Minimal on site civil works.
- Fast track off site manufacturing.
- Pre delivery factory testing and inspection in a controlled manufacturing environment.
- Easy site installation of complete instrument room in single delivery.
- Aesthetically compatible with boiler house and other site buildings.

Proven Design & Services Support

- Proven product design - backed by the extensive experience and expertise of our mechanical and electrical design engineers.
- Service support – dedicated mechanical and electrical field support engineers from our service organisation.



External view of 3m x 4m instrument room



3D Model of 3m x 4m instrument room

Supply Options

The Instrumentation room can be supplied with the following options factory installed.

- Compartmental welfare facilities (W/C & Hand Basin).
- External lighting fixed to the enclosure.
- Compartmental battery room for UPS applications.
- Security systems.
- Gas and fire detection systems.
- Gas fired generator (10 kVA - 260 kVA).
- Wind turbine for eco friendly battery charging.
- PV Solar panels for eco friendly battery charging.
- Inverter system for non mains powered site applications.

All descriptions and Illustrations contained in this leaflet have been carefully prepared but we reserve the right to make changes and improvements in our products which may affect the accuracy of the information contained on this leaflet.