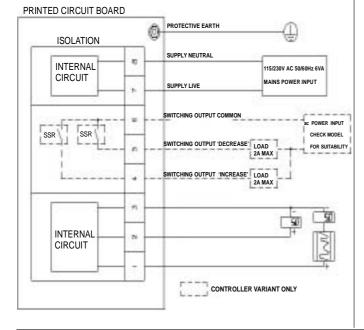
# **Boiler Pressure Regulator**

## **BPR2000**

- Simple and low cost installation
- Maintenance free
- **Solid State Circuitry**
- No mechanical parts - providing high reliability
- Robust VRP Transducer
- Increased sensitivity ideal for flue gas draught measurement
- **Self Contained Transmitter/Controller**
- Weatherproof aluminium enclosure
- **CE Certification**



## **DESCRIPTION:**

BPR2000 is a 3-point UP/DOWN Draught regulator especially designed for incinerator, cremator and boiler use. BPR2000 contains a capacitive sensor cell where all pars are made of stainless steel or ceramic. The internal part of this type of cell is temperature compensated. BPR2000 is typically used to control a damper in the flue channel ahead of an extractor. This way the underpressure in the combustion chamber is stabilised independent of stack-draft, pressure drop past the heat exchange section and burner behaviour.

## **SPECIFICATIONS**

### Electrical

Supply voltage: 230Vac ± 10% 50/60 Hz Analogue output: 4-20mA 0-1mA switch selectable. Max insertion

600ohm or 0-10V dc. Max current 5.0 mA

Damping filter time constant: 0.5 to 5 seconds, switch

selectable

Control Board (where fitted)

Control switching output: Solid-state relays

> 12-80Vac or 80-240Vac (option) 2 ampere, resistive.

Damping filter time constant: 0.5 to 5 seconds, switch selectable. Pressure Ranges:

5 to 1000 mm water gauge.

Gauge or differential (50 Pa - 10 KPa)

#### Pressure Media

Typically air or similar non-conducting gasses.

#### Transducer

Capacitance principle with stainless steel body, diaphragm & electrode. Ceramic insulator. Internal temp. compensation.

±1.2% of full-scale, at constant temperature Accuracy1:

Non-linearity(BFSL): ±1% of full-scale Hysteresis: 0.2% of full-scale Non-repeatability: 0.2% of full-scale

Max. line pressure: 70 KPa (0.7 bar) in positive or negative direction

Thermal effects:

Zero/span shift: 0.1% per °C Compensated range: -18 to +65°C Warm up shift2: 0.5% of full-scale total

**Environmental** 

Diecast aluminium AISI 12, DIN 1725. Enclosure:

> Weatherproof to IP 65 wall mounting. LxWxH 180x140x71 (excl. fittings)

6mm OD compression fittings Pressure connection: Cable entries: 3 off drilled 20.6mm Dia. For M20 x 1.5 pitch or pq 13.5

Operating temperature: -18°C to 65°C Weight: 1.5 kg net

<sup>1</sup>Accuracy expressed ad the root sum squares of non-linearity, hysteresis and non-repeatability.

<sup>2</sup>While internal temperature compensation becomes effective

From the same supplier:

Oxygen Indicator

Oxygen Trim Regulator

Fail Safe

High-Temp. Extraction System

Measuring smoke and dust

OC 2000 Precise, fast reacting and sturdy oxygen indi-cator with alarms and safe control capabilities. Includes the OS 2000 probe. OTC 2000 is a P.I.D. regulator that provides optimum com-bustion throughout the burner's full area of operation.

proved and reliable RPM control of combustion air fans.

FS 2000 'Fail Safe' offers ap- ETS 2000 Offers oxygen measurment in gases upto 1400 °C and higher - also in harsh environment.

VEM 250/251/252 ensures robust and economical optical measuring of smoke densityand dust concentration.

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