



## **MICROX Datasheet**

### **1 Description**

*"An analyser and lightweight affordable probe for the measurement of gas phase oxygen (MICROX O) or hydrogen (MICROX H)"*

### **2 Technical Performance**

#### **2.1 Response time**

90% response time to a change in gas concentration is < 5 seconds.

#### **2.2 Accuracy**

Accuracy, +/- 5% of gas concentration.

#### **2.3 Reproducibility**

Reproducibility, +/- 3% of gas concentration.

#### **2.4 Measurement range**

PYROX O: 10<sup>-20</sup> ppm – 100% oxygen

PYROX H: <ppm levels<sup>1</sup> – 100% hydrogen

#### **2.5 Temperature range**

PYROX O: 400 - 1300°C

PYROX H: 450 - 830°C

### **3 Salient Features**

#### **3.1 The analyser unit**

1. Displays gas concentration and temperature
2. Panel mounting
3. Access to configuration and sensor calibration screens via front panel
4. Alarm option available
5. MODBUS COMMS options available (Ethernet / Serial).
6. Maximum operating temperature 50°C.

#### **3.2 The measuring probe**

The measuring probe has the following features:

1. Small diameter (~3mm) allows mounting where space is a premium
2. Metal sheath can be bent allowing measurement in hard to reach areas
3. Gas tight NPT fittings available
4. Standard lengths: 0.25m, 0.5m, 1m (others available on request)
5. The probe is fitted with a thermocouple for continuous measurement of temperature

### **4 Analyser connections / maintenance**

The unit is suitable for use with all AC voltages between 85 and 265 V RMS (47 to 63 Hz), and requires 20 VA max. power. Voltage selection is automatic. A 24 V DC version is also available.

<sup>1</sup> Lower sensing limit for hydrogen depends on temperature and oxygen partial pressure. For measurement at ultra low hydrogen partial pressure please contact EMC Limited for advice.

