



## 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:  $10^{-20}$  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.

