



Orbisphere 51x Hydrogen Controllers

The ORBISPHERE 51x controller using ORBISPHERE thermal conductivity sensors provides precise, selective and reliable measurements of H₂.

This system is designed for process monitoring in liquid or gas phases across a wide range of applications from beverage production to rinsing semiconductor wafers in chip-manufacturing plants.

The user interface is a large colour touch screen with intuitive software allowing easy configuration of the instrument set-up for process parameters and alarms. The main measurement window continuously displays real time process readings, graphed sensor trends, alarm limits, temperature and event occurrence.

- Up to 3 sensors input for a reduced cost of installation and ownership
- High level of accuracy and rapid response time means reliable and effective process monitoring
- Thermal cut-off sensor protection for CIP/abnormal high temperature conditions
- Adjustable alarms and outputs providing assurance that any out of specification events are recorded
- Simple transfer of product and global configuration settings between instruments using USB-client or USB-host
- Product change can be driven by Profibus DP from a centralized automation system
- External pressure sensor option enables gas concentration measurement under variable pressure conditions

| Part Number | Enclosure construction | Power requirements (Voltage) | Communication | Electrode compatibility | GBP Price |
|-----------------|------------------------|------------------------------|--------------------|---|------------|
| 510AB0/T1C0P000 | Portable | 100 - 240 V AC | Profibus DP, RS485 | Channel 1 : 311xx or A1100 Channel 2 : 312xx | Contact Us |
| 511F00/P1C1P000 | Panel Mount | 100 - 240 V AC | Profibus DP, RS485 | Channel 1 : 312xx | Contact Us |
| 512AF0/P1C1P000 | Panel Mount | 100 - 240 V AC | Profibus DP, RS485 | Channel 1 : 311xx or A1100 Channel 2 : 312xx | Contact Us |
| 510B00/P1C0P000 | Panel Mount | 100 - 240 V AC | Profibus DP, RS485 | Channel 1 : 312xx | Contact Us |
| 510B00/W1C0P000 | Wall mount | 100 - 240 V AC | Profibus DP, RS485 | Channel 1 : 312xx | Contact Us |
| 511AF0/P1C1P000 | Panel Mount | 100 - 240 V AC | Profibus DP, RS485 | Channel 1 : 312xx | Contact Us |
| 511F00/T3C0P000 | Portable | 100 - 240 V AC | Profibus DP, RS485 | Channel 1 : 312xx | Contact Us |

| Part Number | Enclosure construction | Power requirements (Voltage) | Communication | Electrode compatibility | GBP Price |
|-----------------|------------------------|------------------------------|--------------------|----------------------------|------------|
| 511F00/W1C1P000 | Wall mount | 100 - 240 V AC | Profibus DP, RS485 | Channel 1 : 312xx | Contact Us |
| 512AF0/W1C1P000 | Wall mount | 100 - 240 V AC | Profibus DP, RS485 | Channel 1 : 311xx or A1100 | Contact Us |
| | | | | Channel 2 : 312xx | |
| 510B00/T1C0P000 | Portable | 100 - 240 V AC | Profibus DP, RS485 | Channel 1 : 312xx | Contact Us |
| 511FK0/P1C1P0N0 | Panel Mount | 100 - 240 V AC | Profibus DP, RS485 | Channel 1 : 312xx | Contact Us |
| | | | | Channel 2 : K1200 | |
| 511FK0/W1C1P0N0 | Wall mount | 100 - 240 V AC | Profibus DP, RS485 | Channel 1 : 312xx | Contact Us |
| | | | | Channel 2 : K1200 | |