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# Orbisphere 51x Nitrogen Controllers

The Orbisphere 51x controller using Orbisphere thermal conductivity sensors provides precise, selective and reliable measurements of $N_2$.

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 | Communication | Electrode Compatibility | Enclosure Construction | Power Requirements (Voltage) | USD Price |
|---|---|---|---|---|---|
| 512AE0/W1C1P000 | Profibus DP, RS485 | Channel 1 : 311xx or A1100; Channel 2 : 315xx | Wall mount | 100 - 240 VAC | Contact Hach |
| 511EK0/W1C1P0N0 | Profibus DP, RS485 | Channel 1 : 315xx; Channel 2 : K1200 | Wall mount | 100 - 240 VAC | Contact Hach |
| 512AE0/P1C1P000 | Profibus DP, RS485 | Channel 1 : 311xx or A1100; Channel 2 : 315xx | Panel Mount | 100 - 240 VAC | Contact Hach |
| 511E00/W1C1P000 | Profibus DP, RS485 | Channel 1 : 315xx | Wall mount | 100 - 240 VAC | Contact Hach |
| 512EF0/P1C1P000 | Profibus DP, RS485 | Channel 1 : 315xx; Channel 2 : 312xx | Panel Mount | 100 - 240 VAC | Contact Hach |
| 511EK0/P1C1P0N0 | Profibus DP, RS485 | Channel 1 : 315xx; Channel 2 : K1200 | Panel Mount | 100 - 240 VAC | Contact Hach |

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