

Orbisphere 511 Controller N_2 (TC), Wall Mount, 100-240 VAC, 0/4-20mA, Profibus, Ext. Press.

Product #:	**511E00/W1C1P000**
ZAR Price:	Contact Hach

Precise, Powerful Process monitoring

The Orbisphere 510 Multi-Channel controller offers precise, powerful process monitoring capability.

Designed to complement the Orbisphere high quality sensors these instruments provide accurate, repeatable trace level measurements and an impressive level of data management.

Depending on the version, the Orbisphere 510 controller can be combined with up to 3 sensors among:

• Orbisphere 311xx Oxygen Sensors

• Orbisphere A1100 Oxygen Sensors

• Orbisphere K1100/K1200 Oxygen Sensors

• Orbisphere M1100 Oxygen Sensor

• Orbisphere 314xx Carbon Dioxyde Sensors

• Orbisphere C1100 Ozone Sensors

• Orbisphere 312xx Hydrogen Sensors

• Orbisphere 315xx Nitrogen Sensors

These controllers are designed for applications in the power generation, electronics, life sciences, beverage, chemical and water treatment industries.

Do not hesitate to contact us to define the best configuration for your application.

Easy to use, intuitive software using clear, full color touch-screen
All functions of Orbisphere 510 instruments are accessed through the color, touch screen.This screen acts as display and keyboard.

Internal diagnostics and reminders for maintenance and calibration
To ensure continuous high performance and simplify maintenance, Orbisphere 510 instruments offer a number of diagnostic features.

• Notification that calibration is due—ensures QC procedural compliance

• Notification that a sensor service is due—optimal preventative maintenance planning

• Sensor service diagnostics—minimizes downtime

• System alarms transmitted through analog output—continuous status indication

Easy to use and reliable
Orbisphere 510 instruments are designed for ease of use. After simple installation, the system is measuring your process in minutes. Simple menus allow you to rapidly create a specific configuration for the instrument. The main measurement window continuously displays real time process readings, graphed sensor trends (user selectable from last 1 minute to last 1 hour), alarm limits, temperature and event occurrence.

Multiple communication options including USB and Profibus
Digital communication uses industry standard protocols including Profibus and USB in addition to traditional analog outputs and alarm relays. These may all be configured in terms of function, content and behavior.

Data Storage
Data storage of up to 10000 measurements, last 1000 operator actions and details of last 50 calibrations

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Specifications

Analogue Outputs:	3 smart 0/4-20 mA (500 ohms), programmable as linear or tri-liniear, configurable to send diagnostics information
Communication:	Profibus DP, RS485
Communication Capabilities:	3 x 0/4-20 mA; RS485; Ethernet
Compatible Instruments:	Channel 1 : 315xx
Compliance Certifications:	EMC: EN61326-1:2006 CE: EN61010-1:2010 ETL, conforming to UL 61010-1 and CSA 22.2 No. 61010-1
Data storage:	Rolling buffer or store once mode for up to 1000 measurements and 1000 operator actions Holds calibration records for last 50 calibrations
Dimensions (H x W x D):	230.5 mm x 250 mm x 160 mm
Display:	Colour TFT touchscreen display
Electrode Compatibility:	Channel 1 : 315xx
Enclosure Construction:	Wall mount
Material:	Stainless steel
Measurements:	Resolution, accuracy and response time are determined by sensor
Operating conditions:	0 - 95 % non-condensing relative humidity
Operating temperature range:	-5 - 50 °C
Password Protection:	5 levels of authorised access to configuration and data management
Power:	Universal 100/240 VAC @ 50/60 Hz, 25 VA
Power requirements (Voltage):	100 - 240 VAC
Power supply:	Universal 100/240 VAC @ 50/60 Hz, 25 VA
Relays:	3 measurement alarm relays (2A to 30 VAC or 0.5 A to 50 VDC); configurable to send diagnostics information 1 system alarm relay (2 A to 30 VAC or 0.5 A to 50 VDC)
Units:	• Gas concentration: Configurable for gas or liquid phase with multiple unit options • Pressure : External and barometric pressure with multiple unit options • Temperature : Sample temperature with unit options (K, °C, °F)
User Interface:	Touch screen panel displays: concentration, trend graph, diagnostics, alarm status, historical data
Warranty:	12 months

Weight:	3.8 kg
What's included?:	511 controller and manual only. Sensor and cable, flow-chamber or process connection, must be ordered separately.

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