

Orbisphere 410 Controller O_3 (EC), Panel Mount, 10-30 VDC, 0/4-20mA

Product #: **410C/P2C00000**

AED Price: Contact Hach

Precise, Powerful Process monitoring

The Orbisphere 410 Mono-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 410 controller can be combined with:

• Orbisphere 311xx Oxygen Sensors

• Orbisphere A1100 Oxygen Sensors

• Orbisphere K1100 Oxygen Sensors

• Orbisphere M1100 Oxygen Sensor

• Orbisphere 314xx Carbon Dioxyde Sensors

• Orbisphere C1100 Ozone 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 410 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 410 instruments offer a number of diagnostic features: A notification that calibration is due ensures QC procedural compliance, a notification that a sensor service is due ensures optimal preventative maintenance planning. The sensor service diagnostics minimises downtime, and system alarms transmitted through analogue output provide continuous status indication.

Easy to use and reliable
Orbisphere 410 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 analogue outputs and alarm relays. These may all be configured in terms of function, content and behaviour.

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:	3 x 0/4-20 mA; RS485; Ethernet
Communication capabilities:	3 x 0/4-20 mA; RS485; Ethernet
Compatible instruments:	Channel 1 : 313xx or C1100
Compliance certifications:	EMC: EN61326-1:2006 CE: EN61010-1:2010 ETL, conforming to UL 61010-1 and CSA 22.2 No. 61010-1
Controller:	410, Mono-channel
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):	156 mm x 220 mm x 253.5 mm
Display:	Colour TFT touchscreen display
Electrode compatibility:	Channel 1 : 313xx or C1100
Enclosure Construction:	Panel Mount
Material:	Aluminium
Measurements:	Resolution, accuracy and response time are determined by sensor
Number of channels:	1
Operating conditions:	0 - 95 % non-condensing relative humidity
Operating temperature range:	-5 - 50 °C
Parameter:	O_3 (EC)
Password Protection:	5 levels of authorised access to configuration and data management
Power:	10 - 30 VDC, 30 W
Power requirements (Voltage):	10 - 30 V DC
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:	24 months
Weight:	2.9 kg
What's included?:	410 controller and manual only.

Sensor and cable, flow-chamber or process connection, must be ordered separately.

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