

## SERVOMEX AquaXact 1688

## **AQUAXACT 1688**

The AquaXact 1688 is a rugged ultra-thin film aluminum oxide moisture sensor that enables fast and accurate dew point and ppm  $H_2O$  measurements of moisture in a wide variety of gas phase process applications. Not only is it a standalone 4-20mA transmitter, but it is also able to be remotely interfaced to the SERVOPRO MonoExact DF310E and the AquaXact 1688 digital controller. The controller provides a high-clarity color touchscreen display, alarms, relays and advanced communication protocols including RS485, Modus RDU, Modbus TCP/IP and PROFIBUS. Optional internal oxygen sensors provide ppm to percent level  $O_2$  measurement capabilities.

REPLACEABLE SENSOR ELEMENT: The  $Al_2O_3$  thin film sensor tip can be replaced by the user and the associated calibration file loaded into the transmitter using the controller, eliminating the need for return-to-factory calibrations. Yearly field calibration adjustments require only a single gas standard.

## STANDARD FEATURES

- Dew Point range -100°C to +20°C
- High Accuracy: ± 3°C Repeatability ± 0.5°C
- Functions as a standalone Dew Point transmitter 4-20 mA loop powered
- High-performance ultra-thin film high-capacitance Aluminum Oxide field-replaceable sensor element
- Sensor unaffected by condensation and liquid water
- Accurate dew point measurements over its full range, even under extreme temperature conditions
- Interfaces with SERVOPRO MonoExact DF310E gas analyzer system and AquaXact controller via digital interface maximum cable length 200 meters
- Range of engineering units °C(dp), °F(dp), ppmV
- Hazardous Area versions (Zone 2/Div 2) available soon
- IP65 rated connector





	KEY SPECIFICATIONS - AQUAXACT MOISTURE SENSOR
DEW POINT RANGE	-100°C to +20°C, other ranges available
ACCURACY	±3°C (±3.6°F)
REPEATABILITY	+/-0.5°C (±0.9°F)
AMBIENT TEMPERATURE RANGE	-10°C to +70°C (+14°F to +158°F)
STORAGE TEMPERATURE	-40°C to +80°C (-40°F to +176°F)
CALIBRATION METHOD	NIST traceable multipoint calibration table with temperature compensation over the full range
SAMPLE GAS TEMPERATURE RANGE	-10°C to 70°C
SAMPLE GAS PRESSURE RANGE	0 to 300 psig

Learn more about the AquaXact 1688

Visit servomex.com/aquaxact1688













## **KEY APPLICATIONS**

- Air Separation Units
- Natural Gas Processing and Transportation
- Glove Boxes
- Instrument Air Units
- Ethylene Production
- Refining Gases
- Medical Gases

- Semiconductors
- Furnace Gas/Heat Treating
- Power Generation
- Air Dryers
- Pharmaceutical
- Aerospace

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