

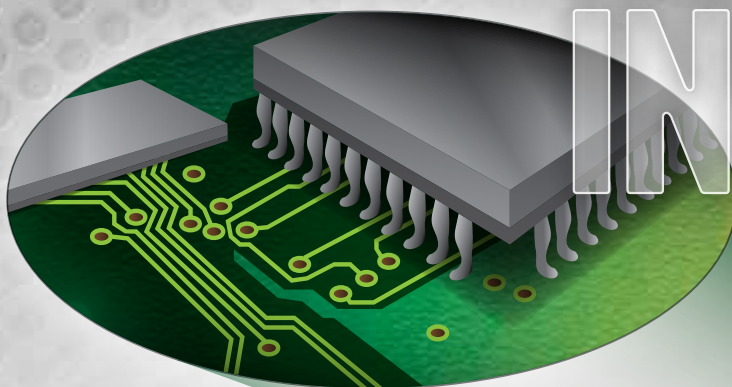
Arc Sensors

Wisdom from within

Eliminate
the transmitter
with Arc



TRANSMITTER
INSIDE!

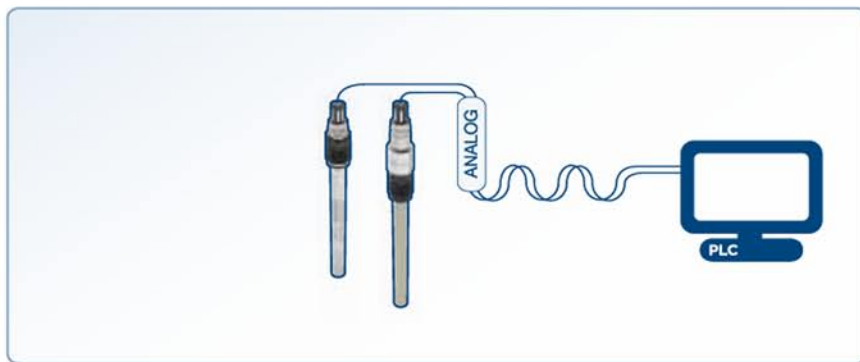


HAMILTON 

The true power

Hamilton Arc family

With the transmitter integrated, and using open industry standards, Arc sensors offer fully compensated, backwards compatible measurement signals that integrate directly into new or existing process control systems. The Arc μ -transmitter located in the sensor head stores all relevant sensor data, including calibration and diagnostic information, and is accessible through a variety of tools. Arc communicates through open industry standards.



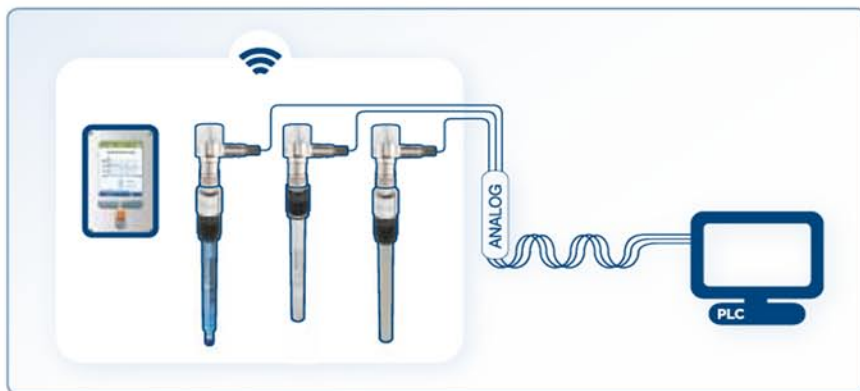
Eliminate the transmitter and get more reliable readings

Feature

- ▶ Direct connection to PCS through 4-20mA standard and digital signals

Benefit

- ▶ Reduce upfront costs
- ▶ Integrates easily into existing process control systems
- ▶ No weak, temperamental sensor signals



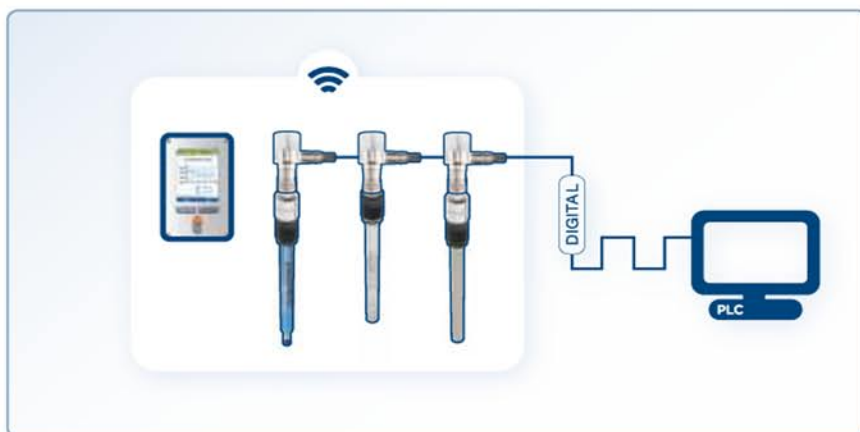
Wireless communication saves time without compromising quality

Feature

- ▶ Wireless option for > monitoring > configuration > calibration ... parallel to 4-20mA signal

Benefit

- ▶ Manage up to 31 sensors at a time with one device
- ▶ Local online monitoring
- ▶ One unified interface for pH, DO, conductivity and ORP measurements



Digital signal communication – Intelligence built into every Arc sensor

Feature

- ▶ ModBus digital communication by open standard
- ▶ Full online wireless option for monitoring, configuration and calibration

Benefit

- ▶ Robust digital communication
- ▶ Access to all sensor data
- ▶ Straightforward integration into existing digital environments



Arc Sensors

VisiFerm

The VisiFerm is the first optical process sensor for measurement of dissolved oxygen that has significant advantages over classical Clark cells. With optical DO sensing, no electrolyte or polarization is necessary. Typical applications include biotechnology and pharmaceutical, water, breweries, wineries and soft drink processing.

OxyFerm

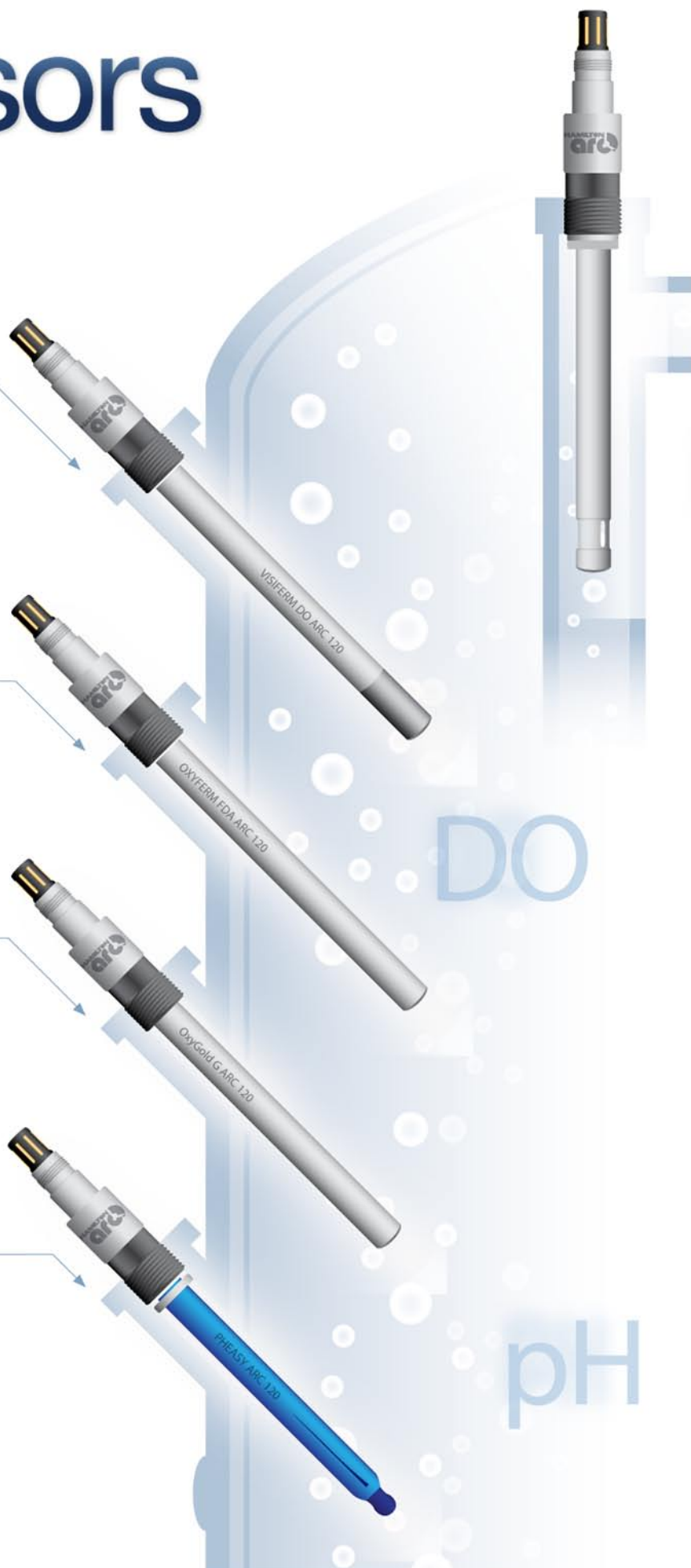
The OxyFerm family of classic electrochemical (amperometric) oxygen sensors are designed for use in processes where autoclavations, steam sterilizations (SIP) and clean in place (CIP) procedures occur frequently.

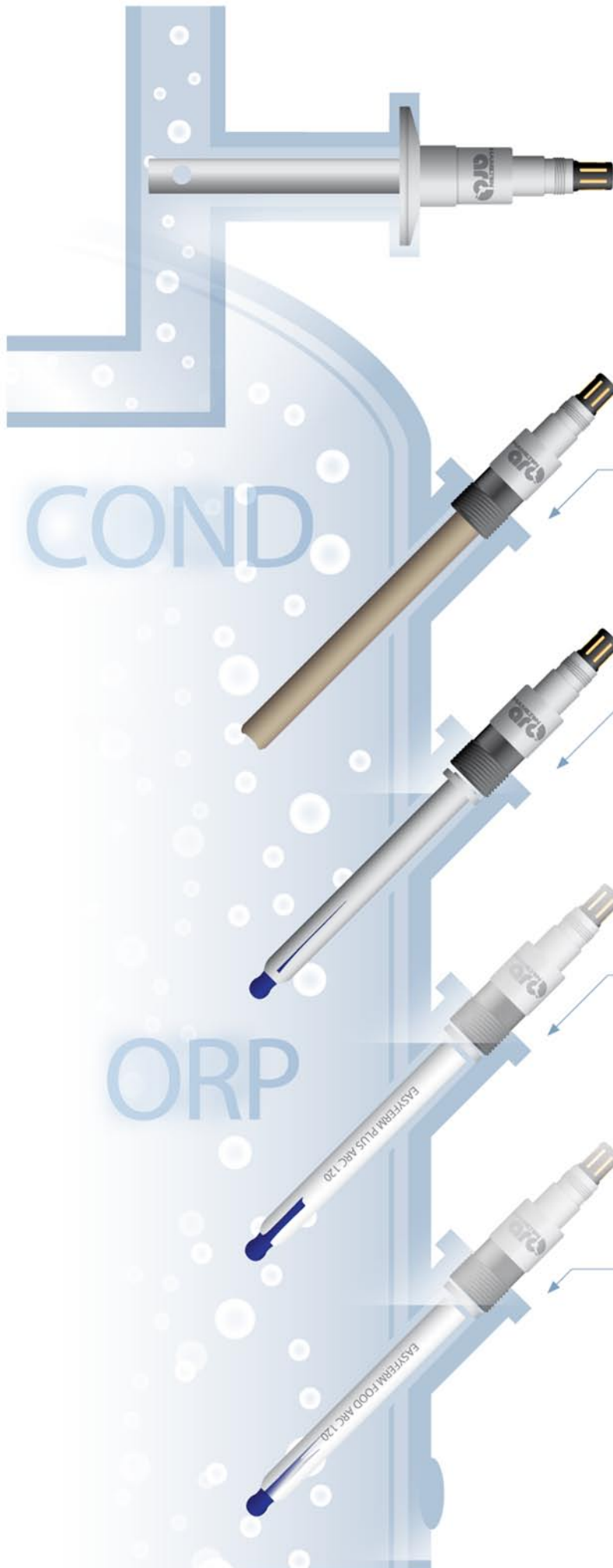
OxyGold

The OxyGold family of electrochemical (amperometric) oxygen sensors are designed for applications with trace levels of oxygen such as those required by boiler feed water and beverage processes. The B-version uses an acidic electrolyte and has no cross-sensitivity to carbon dioxide.

pHeasy

The pHeasy is one of the first pH electrodes with a built-in accuracy monitoring. It's designed for various applications where monitoring long-term stability is desired.





Conducell PWSE

The Conducell PWSE 2-pole conductivity sensors are designed for the use in liquids with very low conductivity, i.e. UPW, PW, WFI, particularly in the pharmaceutical and chemical industry. Conducell PWSE sensors are available in different process connections such as: TriClamp 1.5", PG 13.5, G125, NPT 3/4"

Conducell

The Conducell 4Ux(F) family of 4-pole conductivity sensors is suitable to measure a broad range of conductivities with excellent linearity. Typical applications are monitoring of CIP cleaning and chromatography.

Polilyte Plus

The Polilyte Plus family of pH or ORP electrodes is designed for long lifetime and measurement accuracy in harsh chemical environments, waste water or those processes with high alkaline or low conductivity solutions.

EasyFerm Plus

The EasyFerm Plus family of pH or ORP electrodes is ideal for biotech and pharma applications, like fermentations, where autoclavations, steam sterilisations (SIP) and cleaning in place (CIP) procedures occur frequently.



EasyFerm Food

As the EasyFerm Plus family, the EasyFerm Food family of pH-electrodes is also ideal for biotech and pharma applications. In addition the EasyFerm Food offers certified Bio-compatibility for the reference Electrolyte, as well as EHEDG certified cleanability.



Arc Products

Arc View Handheld

This device empowers the operator to monitor measurement values, calibrate Arc sensors and configure various parameters using a unified user interface for pH, DO, Conductivity and ORP. The Arc View Handheld can communicate with up to 30 Arc sensors at a time over wireless channels parallel to the process control system's main interface. Using the Arc View Dock the Arc View Handheld is directly connected to a single Arc sensor and can be used as a laboratory desktop tool.

- ▶ On-line wireless sensor monitoring (up to 30 Hamilton Arc sensors)
- ▶ Display sensor data
- ▶ Sensor calibration
- ▶ Sensor configuration
- ▶ Visualization of the sensor status and diagnostic data
- ▶ Data management



Arc Wi Sensor Adapter

This wireless adapter is mounted between the VP head of an Arc sensor and the VP sensor cable. The Arc Wi provides the wireless communication between the Arc sensor and Arc View Handheld unit.

- ▶ Arc Wi is plug & play for each and every Arc sensor type
- ▶ Configuration-free installation
- ▶ Analog sensor signals are bypassed through the Arc Wi Sensor Adapter
- ▶ Visual indication of an active wireless connection to the sensor

NEW!

Hamilton Device Manager (HDM)

The Hamilton Device Manager is a frame application based on FDT (Field Device Tool) technology to configure and manage all Arc sensors. With the HDM, we also provide DTM (Device Type Manager) files as "driver" for our Arc sensors, usable in any FDT application.



Arc Sensor family

pH Arc



DO Arc



ORP Arc



COND Arc





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