

Conducell UPW Arc Sensors

The fully compliant ultra-pure water (UPW) quality measurement sensors from Hamilton



For biotechnology, pharmaceutical and cosmetic industries, process safety and quality are highly related to the production of pure and ultra-pure water that meets the Pharmacopeia regulations.

In-line measurement of conductivity is one of the most important parameters to ensure compliance. The Conducell UPW Arc sensors are designed for the measurement of conductivity in pure and ultra-pure water according to the USP 645, to EP and JP. Two versions of the sensor are available to fit into different process connections: PG13,5 and TC 1.5". Both versions offer fully compensated measurement signals with integrated diagnostics, history, calibration data and monitoring of ultra-pure water according to USP 645 in the Arc module. The Arc module can be separated from the conductivity cell to verify the meter while the conductivity cell remains in the UPW pipe or tank. A UPW simulator (option) with a traceable (to PTB, resp. NIST) high precision resistor can then be connected to the Arc module. The value of the certified resistor can be monitored on the process control system and/or on the optional Arc View Mobile. Both, the Arc module and the conductivity cell, form one sensor with identical serial numbers.

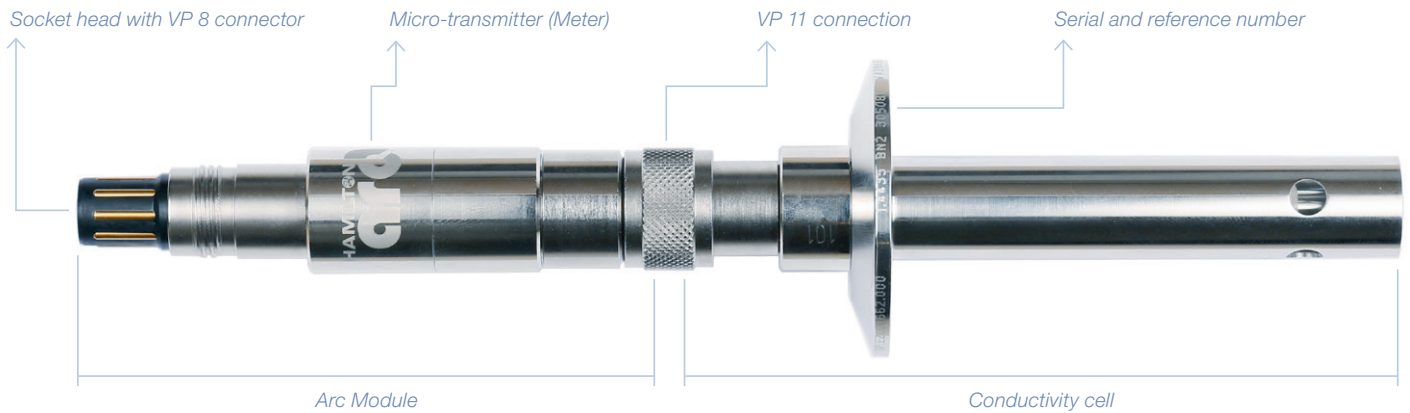
Benefits

- ▶ Fully compliant with USP, EP and JP
- ▶ Monitoring of ultra-pure water acc. to USP 645
- ▶ Various temperature compensations
- ▶ Ultra-pure water simulator to verify the meter onsite
- ▶ Sanitary design: all wetted parts are FDA approved
- ▶ Direct output: analog (4-20 mA) and digital (Modbus) interface
- ▶ Wireless communication option

Temperature Compensations

- ▶ None (acc. to USP <645>)
- ▶ Linear
- ▶ Ultra-Pure Water (acc. to ASTM D1125)
- ▶ Neutral Salt (NaCl, acc. to ASTM D1125)
- ▶ Acidic (HCl)
- ▶ Basic (NH₃)
- ▶ Customizable by end-user

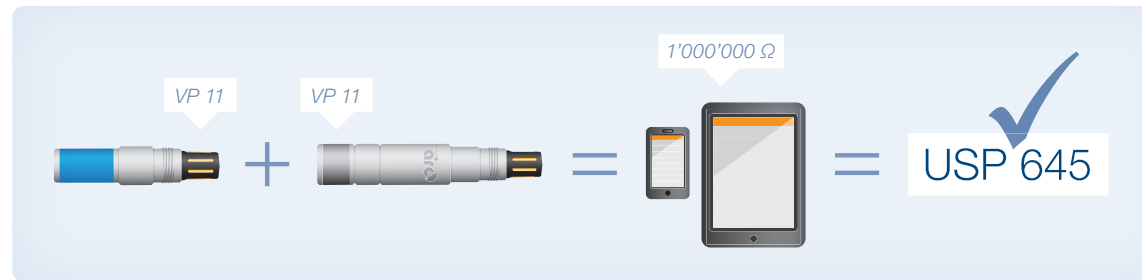
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How to verify the meter (Arc Module)



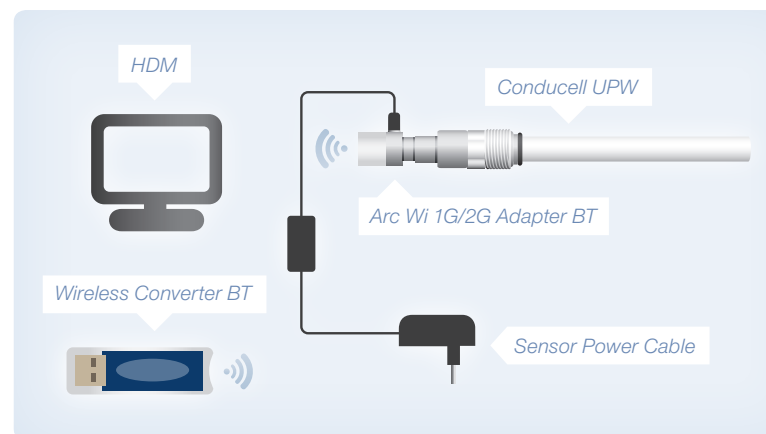
Accessory: UPW Simulator with certified 1 MΩ high precision resistor to verify the function of the meter (Arc module).



Ordering Information

Ref	Sensor
243579	Conducell UPW Arc PG13,5
243578	Conducell UPW Arc TC1.5"
Ref	Accessoires
243690	Arc View Mobile
243460	Arc Wi 1G Adapter BT
243470	Arc Wi 2G Adapter BT
243499	Arc Wireless Converter BT
243580	UPW Simulator
355263	Sensor Data Cable VP 8, 1m
355264	Sensor Data Cable VP 8, 3m
355265	Sensor Data Cable VP 8, 5m
355266	Sensor Data Cable VP 8, 10m
355267	Sensor Data Cable VP 8, 15m
355268	Sensor Data Cable VP 8, 20m

Conducell UPW configuration with HDM



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