



## REALTIME CLEANING VALIDATION INSIDE THE PROCESS

**MEASUREMENT METHOD:** The cleaning process usually involves water with various concentrations of solvents. UV spectral sensor with ATR probe is measuring in transmission mode while the rinsate is flowing by.

### UNIQUE: PROBE WITH INTEGRATED UV SPECTRAL SENSOR

The TRITON CV sensor is the first real-time cleaning monitor with the spectral sensor directly integrated into the process interface itself, allowing in-line validation of the cleaning rinsate at virtually any location in the manufacturing equipment. Once the predetermined concentration level for the analyte has been reached, the cleaning process will be automatically stopped, thereby saving significant amounts of cleaning solvents, that would have been wasted with time based endpoint determination, as the cleaning process would still continue. Using BON's Triton CV products results in significant savings of solvents, reduction of equipment downtime and an overall increase in the manufacturing equipment efficiency.

### SPECIFICATION FOR SENSOR FAMILY TRITON CV

Measurement method	UV - Absorption measurement, path-length 5-20mm
Range	0-1 AU
Accuracy	5 ppm content in ultra-pure water (last cleaning stage)
Resolution	1ppm
Integration time	typically < 2 sec
Measurement distance to material	in contact
Dimensions	Length 364 mm, diameter 114 mm, shaft 12 mm
Weight	1.5 kg
Materials of construction	Stainless steel, sapphire
Light source	Flashed lamp, (life span 10 <sup>9</sup> flashes)
Detector	UV-VIS spectral sensor, 190 - 1000 nm
Operating temperature	5 °C to 45 °C (without cooling mechanism)
Voltage	12 VDC, max. 0,8 A
Industry protocols	ProfiBus, ProfiNet, Ethernet-IP, OPC, RS Minus 485
Process interface	Tri-Clamp, Milk connector, Swagelok
Additional components	Calibration set
Protection class	IP67
EX-Certificate and/or hygiene certificate	available



Also available with other flange adapters, such as Swagelok and more.



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