

SURFACE QUALITY MONITOR

SQM200W

HOW CLEAN IS CLEAN? QUANTIFY SURFACE CLEANLINESS.

BENEFITS

- **Reduce cost** of not monitoring surface cleanliness.
- Have **peace of mind**, objectively monitor your cleaning and rinsing process.
- **Add value** by minimizing or eliminating rework or poor product performance due to improper surface cleanliness.
- **Optimize surfactant use** - know correct concentration and when to replace or replenish the surfactant.
- **Save time** - eliminate guesses about adequacy of surface cleanliness as the cause of problems downstream
- **Speed up problem identification** by eliminating surface contamination as a problem source.



APPLICATIONS

SURFACE CLEANLINESS/ CONTAMINATION MONITORING

- Establish a quantitative measure of the level of cleanliness achieved by the current cleaning process
- Evaluate new or alternate cleaning processes to determine if they can accomplish the same level of cleanliness as the current cleaning process
- Optimize any cleaning process by evaluating how the surface cleanliness is affected by any changes made to the process
- Establish a quantitative measure of the "Acceptable Level of Cleanliness"
- Monitor the cleaning process on an on-going basis to assure that the established level of cleanliness is being achieved
- Optimize rinse cycle and monitor rinse cycle to ensure that parts have been properly rinsed.
- Detect organic and/or inorganic surface contamination
- Replace water break test with quantitative measure of surface cleanliness

LUBRICANTS, COATINGS OR THIN FILMS

- Detect absence/presence of invisible/clear thin films or coatings or lubricants on virtually any surface.
- Monitor relative thickness of very thin films or coatings or lubricants both off-line and on-line.

CHEMICAL STATE OF ANY SURFACE

- Detect micro changes in the chemical state of any surface.
- Monitor the effect of any environment on the cleanliness of product surface or witness panels.
- Detect deposit/s on surface of stored components from out-gassing of storage containers or packing materials.



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DETAILED PRODUCT SPECIFICATIONS

Control Unit Model # 60499:

- Computer Controlled Digital System
- Flat Panel Color Display
- Automatic Data Saving Capability
- Programmable gain (1-2-4-8) and Upper/Lower acceptance limits, Go/ No Go Indicator
- Peak Detect feature with automatic reset
- USB Ports
- Analog Output Signal (0-10V)
- Digital I/O for process control

Sensor Stand Model # 60791:

- Sensor clamp
- Manually operated micrometer for sensor height adjustment, 1" (25 mm) stroke

Sensor Model # 60792:

- Mercury Vapor UV Lamp
- Gain Control Switch, 5 settings
- Inspection Area 0.525" (13.3 mm) Dia.
Can be modified with apertures
- Accept/Reject (Go/No Go) LED Indicators

Aperture Set Model # 60561:

- 6 Apertures with different inspection area openings
- Tweezers
- Gain Switch adjusting tool
- Allen wrench and mounting screws
- Case

APPLICATIONS SUPPORT

Extensive Applications support is available through the factory **including sample testing** and reporting. Please contact the factory or your local representative for further assistance.

EQUIPMENT CONFIGURATION & PHYSICAL SPECIFICATIONS

COMPONENT PARTS	DESCRIPTION	QTY	SIZE	WEIGHT
60499	CONTROL UNIT	1	7" X 14" X 14 1/2"	22 lbs.
60792	SENSOR	1	8.75" X 2.125" X 4"	4 lbs.
60791	SENSOR STAND	1	9 1/4" X 9 1/4" X 4 3/4"	6 lbs.
60561	APERTUR SET	1	1/16" to 1/4" Dia. and slotted apertures (total 6)	1 lb.

OPTIONS

60780 - 6" x 1/4" Rectangular Area Sensor 60778 - 1/2" Dia. L-Shaped Sensor
60779 - 2" x 1/4" Rectangular Area Sensor
Extra Long Sensor Cables (Standard Sensor Cable length is 6', additional length ordered by the foot)
Extended Warranty: Second Year Parts & Labor

Specifications subject to change without notice.



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