

SQM 200**SURFACE QUALITY MONITOR
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

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.
- Monitor relative thickness of very thin films or coatings or lubricants both off-line and on-line.

**LUBRICANTS, COATINGS
OR THIN FILMS**

- Detect deposit/s on surface of stored components from out-gassing of storage containers or packing materials.
- Detect absence/presence of invisible/clear thin films or coatings or lubricants on virtually any surface.



SURFACE QUALITY MONITOR

SQM 200

DETAILED PRODUCT SPECIFICATION

Control Unit Model # 60228 Consisting of:

- Microprocessor Controller
- Analog/Digital (A/D) Card
- Signal Processing/Interface Card
- Vacuum Fluorescent Display - 2 Lines 20 Characters per Line
- RS-232C Serial Communication Port
- Analog Signal Output (0 - 10V)
- Peak Detect feature with automatic reset
- Programmable gain and Upper/Lower acceptance limits, Go/No Go Indicator
- Process Control Signals (TTL logic levels)

Sensor Stand Model # 60262 Consisting of:

- Mercury Vapor UV Lamp
- Pre-Amplifier circuitry with Gain Control Switch
- Inspection Area 0.525" (13.3mm) Dia.
- Accept/Reject (Go/No Go) LED Indicators

Sensor Stand Model # 60145:

- Manually operated micrometer for sensor height adjustments, 1" (25mm) Stroke
- Aluminum base plate with sample ground connection

Aperture Set Model # 60004:

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

APPLICATIONS SUPPORT

Extensive Application 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
60228	CONTROL UNIT	1	7" x 14" x 14 1/2"	22 lbs
60262	SENSOR	1	2 1/4" DIA x 11"	4 lbs
60145	SENSOR STAND	1	91/4" x 91/4" x 63/4"	6 lbs
60004	APERTUR SET	1	1/16" to 1/4" Dia	1 lb

OPTIONS

60263 - 6" x 1/4" Rectangular Area Sensor

60265 - 3/4" 1/4" Rectangular Area Sensor

60264 - 2" x 1/4" Rectangular Area Sensor

60266 - 1/2" Dia. L - Shaped Sensor

Extra Long Sensor Cables (Standard Sensor Cable Length is 6', additional length ordered by the foot)