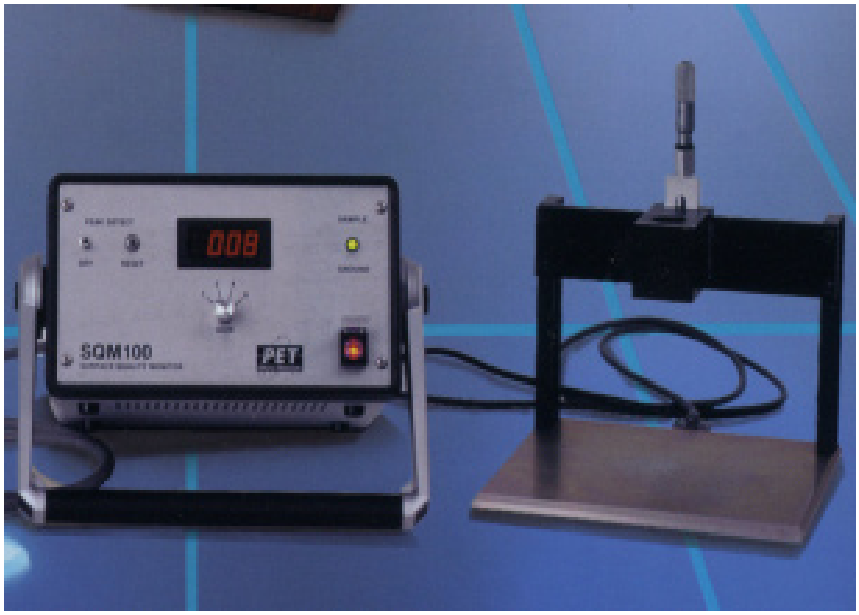
INFRARED INC

SQM 100

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 cleanli ness 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 oatings 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.

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5301 Longley Ln, Suite D154 Reno, NV 89511 - TEL: 775-827-2440 - FAX: 775-827-2441

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SURFACE QUALITY MONITOR

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DETAILED PRODUCT SPECIFICATION

Control Unit Model # 60225 Consisting of:

- 4 Digit LED Display
- Signal Processing Card
- Analog Signal Output (0 - 13V)
- Peak Detect feature with manual reset
- Additional Signal Gain Control

Sensor Model # 60256 Consisting of:

- Mercury Vapor UV Lamp
- Pre-Amplifier circuitry with Gain Control Switch
- Inspection Area 0.525" (13.3mm) Diameter

Sensor Stand Model # 60145:

- Manually operated micrometer for Sensor height adjustment: 1" (25 mm) stroke
- Aluminum base plate with sample ground connectioin

Aperture Set Model # 60004:

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

CONPONENT PARTS	DESCRIPTION	QTY	SIZE	WEIGHT
60225	CONTROL UNIT	1	6" x 10" x 11"	14 lbs
60256	SENSOR	1	2 1/4" DIA x 11"	4 lbs
60145	SENSOR STAND	1	9 1/4" x 9 1/4" x 6 "3/4"	6 lbs
60004	APERTUR SET	1	1/16" to 1/4" Dia	1 lb

OPTIONS

60257 - 6" x 1/4" Rectangular Area Sensor

60258 - 2" x 1/4" Rectangular Area Sensor

60259 - 3/4" 1/4" Rectangular Area Sensor

60260 - 1/2" 1/2" Dia. L - Shaped Sensor

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

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