

## Gallery discrete, photometric analyzer

Fully automated, sample oriented, random access analyzer

Thermo Scientific™ Gallery™ is a fully automated, sample oriented random access analyzer. Many different tests can be run simultaneously from a single sample. Panels of system applications are predefined into the analyzer, e.g., for food, beverage, water, environmental and bioprocess quality control and testing. However, new user-specific applications can be defined.

Gallery employs colorimetric end-point and kinetic as well as turbidimetric and bichromatic reactions with or without sample blanking. System supports automated standard addition measurement method for complex sample matrices.

Optional electrochemical (ECM) unit uses ion selective electrodes for pH measurement. The ECM unit can also measure conductivity.

### Measurement

Single channel interference filter photometer with beam splitting reference, 12 filter positions.

<b>Filter range:</b>	340 - 880 nm
<b>Incubation temperature:</b>	Controlled at 25 - 60 °C, no cooling - preset to 37 °C
<b>Light source:</b>	Xenon flash lamp
<b>Absorbance range:</b>	0 - 3.5 A - resolution of 0.001 A - reproducibility of SD <0.005 A at 2 A

### Reaction vessels

Discrete disposable cuvette. Continuous access to cuvettes without interrupting test processing.

<b>On-Board Capacity:</b>	360 measurement cells - 36 cuvettes with 10 reaction cells - up to 2 hours walk-away time depending on workload
<b>Reaction End Volume:</b>	120 - 300 µL

### Samples and Reagents

Continuous access to samples and reagents without interrupting test processing. Automatic identification via internal barcode reader. Clearly displayed real-time reagent volume and remaining test capacity. Up to four reagent additions per test.

<b>On-Board Capacity:</b>	max 6 racks in the cooled disk - 9 or 18-position sample rack - 6-position reagent rack
<b>Sample Volumes:</b>	2 - 120 µL - possibility to extend up to 240 µL
<b>Sample Containers:</b>	0.5 mL, 2.0 mL, 4.0 mL cups and sample tubes (diameter 12 - 16 mm, length 75 - 100 mm)
<b>Sample Barcodes<sup>†</sup>:</b>	Code 128 and barcodes USS Codabar, Interleaved 2 of 5 and Code 39 with a check digit
<b>Reagent Volumes:</b>	2 - 240 µL
<b>Reagent Containers:</b>	10 mL and 20 mL vials
<b>Sample and Reagent Dispensing:</b>	CV ≤2% for volumes ≥2 µL

<sup>†</sup> used with sample tubes in a 9-pos. sample rack

### Calibration

Factor, bias, linear, logit-log, spline, 2<sup>nd</sup> order and point-to-point calibration. Method-dependent use of individual calibrators or automatically diluted series from a stock calibrator. Previous curve comparison available.

### Quality Control

Real-time QC program with multiple, user-definable Westgard rules. Control frequency user-definable. Out-of-specification control results flagged. QC chart printouts, daily and cumulative reports.

## Dilutions

Automatic sample pre-dilution. Automatic dilution of over-range tests with automatic rerun. Addition of manual pre-dilution value for result calculation.

## Data Management

Windows® workstation with graphical user interface. Data input online, via mouse, touchscreen, keyboard and barcode reader. Different user groups can have different access rights. Different user interface language versions available.

<b>LIS Interface:</b>	CLSI LIS02-A2
<b>Hardware Interface:</b>	RS-232 or TCP/IP
<b>Result Reports:</b>	Collated by sample, manual entry of off-line results allowing for fully collated result reports, results calculated from both measured and off-line results. Spreadsheet reporting for further calculations possible.
<b>Traceability:</b>	Full traceability with long term storage of results including associated calibrations and reagent lot data.

Capacity:	Up to 200 tests/hour with one-reagent methods.
Dimensions and Weight:	75 cm (width) x 70 cm (depth) x 62/130 cm (height/with open cover), 85 kg (weight). Separate workstation.
Power Requirements:	100 - 240 VAC ±10%, 50-60 Hz ±5%, 250 W
Deionized Water Consumptions:	1.5 litres/ hour
Average Noise Level at 1 meter:	<60 dB(A)
Environmental Conditions:	Operating temperature range of 18 - 30 °C, humidity 40-80% (non-condensing)
Regulatory:	Conforms to CAN/CSA-C22.2 No.61010-1-04 UL Std. No. 61010-1:2004 FCC CFR 47 Part 15, subpart B 2011/65/EU RoHS Directive 2006/42/EC Machinery Directive 2004/108/EC EMC Directive <b>CE</b>
Ordering Codes:	9861 0001 Gallery 9861 1001 Gallery with the ECM unit

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