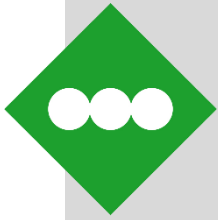


Article No. S62300

Modular Line



# ML Spectro Analyzer

For measuring ISO whiteness, color, color differences, fluorescence and opacity

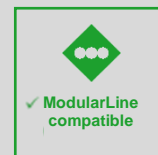
For:



✓ PAPER



✓ BOARD



## MOST IMPORTANT BENEFITS:

- ✓ Compact device with built-in industrial PC
- ✓ Dual beam spectrophotometer with touch screen
- ✓ Spectral range 360-740nm wave length
- ✓ d/0 geometry of the sphere, pulsed xenon flash lamp

 **FRANK-PTI**  
QUALITY TESTING INSTRUMENTS

SUBSIDIARY OF  *Flot-Hansson*

 **M.C. TEC**

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## PRODUCT DESCRIPTION

The ModularLine Spectro Analyzer color and whiteness tester uses xenon flash technology and a two-beam spectrophotometer. Depending on the standard to be applied, different UV levels are available, which can simulate both daylight and artificial light. The test instrument is designed for high accuracy as well as stability and reliability.

A wide variety of algorithms is used to perform a large number of calculations for each measurement, which can be displayed and processed if required. The automatic stack changer gives the tester a level of convenience. Not only in a ModularLine but also in a stand alone use.

## TEST DESCRIPTION

The measuring system of the tester is automatically placed on the specimen and the stack selected for measurement is moved to the correct position by the stack changer. After the measurement, the stack is automatically replaced by the black standard and another measurement is performed. The values measured are the basis for calculating the color properties, as well as the whiteness and opacity. The stack changer provides 6 positions, which can be optionally loaded with calibration standards for fully automatic basic calibration and/or with a wide variety of sample stacks. With the sample punch, which is available as an accessory, the individual stack containers are filled directly, thus avoiding contamination of the sample stack during handling.



Overview of individual measurements, measurement series and statistics

## TECHNICAL DATA

### DEVICE / INSTRUMENT

- Optical system with d:0° spherical geometry complies with most common standards
- Easy adaptation of instrument parameters to other instruments
- Good compatibility with predecessor and its measurement data
- ProbeNet compatible
- Single instrument version available (Spectro Analyzer)  
Protection type: 2  
Protection class: IP44

### APPLICABLE STANDARDS

DIN53145 53147, 54500  
ISO 2469, 2470,2471,3688,11475,11476  
TAPPI T519, T525, T527  
\*more standards on request

### MEASUREMENT

- Measurement method: - ISO whiteness (R457)  
- color: XYZ/Rx,Ry,Rz/L,a,b/  
L\*,a\*,b\*/L\*,C\*,h\*/ x,y,Y  
- Color difference between two samples / standard and sample  
- Fluorescence measurement  
- Opacity
- Messgeometrie: Reflection: d:0° (diffuse illumination/ =° observation)  
LAV setup complies with ISO 2469, JIS P8148, DIN 53145-1, DIN 53145-2
- Wave length range: 360 nm -740nm  
Wave l. interval: 10 nm  
Measuring range: 0-200%; resolution 0,01%  
Measuring time: approx. 1,5 sec  
Minimum time: approx. 2 sec (UV 100%)  
between two tests: approx. 3 sec (UV 0% adjusted)  
Measuring-, illumination area: ø 30mm

### CONNECTIONS

- Power supply: 110-230V / 50-60Hz  
Power consumption: <90 W  
Water: no  
Compressed air: 4-6 bar  
Input for hose 6mm



Detailed view – single result



Sample stack cartridge for measuring on different grounds and for calibration on standards

## DATA

RS232:	Data output
Ethernet:	Data output / MQTT
USB:	Updates / Service

## DIMENSIONS

S623000002	<b>L x H x B</b> 700 x 670 x 330 mm
<b>WEIGHT:</b> S623000002	net / gross <b>ca. 35 kg / 72kg</b>

## ARTICLES / MODELS

S623000002 ModularLine Spectro Analyzer

\* more versions on request

### Accessories available:

S623001001 Punch for sample stack (manual)  
(Without punch main unit is not functional)

ProbeNet Software including one license  
\*We will gladly explain requirements on request