COMPLETE RANGE OF

COUNT ANALYSING SYSTEMS

The measurement of the count (linear density) of slivers, rovings and yarns, as well as the fabrics' & cloths' weight per square meter, are essential parameters of their quality. In order to meet different requirements in terms of automation and costs, Mesdan-Lab is offering two solutions:

COUNT ANALYSER II, code 1666
The instrument consists of electronic counter with microprocessor, built-in data management software, digital display, built-in mini printer and high precision electronic balance (to be selected), to automatically determine the sample count and elaborate the statistical analysis for being shown on the counter display and then printed.

COUNT LAB SOFTWARE, code 165.630
It is composed of a software able to acquire data from the scale (not included, to be selected), convert into a count figure, elaborate the statistical values showing the report on the PC monitor for printing and/or saving. PC (not included) with minimum requirements: Windows 7 OS, and 2 USB ports. Recommended solution in case data storage is required.

- Measuring systems available: Nm/m, Nec/yd, Nec/m, Nec/yd (inch), den, dtex, Tex, KTex (gr/m), g/m^2, grains/yd, g, YSW.
- Available statistical data: average, min and max count, standard deviation (sigma), CV%, Range %, IC% (95%), upper and lower limits.
- Sample length or area settable for the different measuring systems from min 0,01 up to max. 999,99 (m, inch, yd or m^2).
- Distribution's diagram.

MESDAN LAB

COUNT ANALYSING SYSTEMS CODE 1666, 165.630

Test Methods:

Both Count Analyser and Count Lab can operate following two different methods.

Simplified counting: the count of each test is visualised together with all the statistical results. A graph showing each sample's count is then visualised and printed.

Normal counting: tests are divided into different groups. It is possible to show the count of each test, the overall statistical results and the results of each group. It is also possible to print a graph of result distribution referred to a preset nominal count. Moreover, a third graph allows the operator to check whether each sample - referred to a preset nominal average count - is in the range of the desired tolerance values or not.

Test procedure:

Place each sample on the scale pan, press the acquisition key; the value will be immediately acquired, transferred to the counter/PC and shown on the display/monitor. When the test is over, the key for data processing must be pressed and, after inserting the reference parameters and choosing the counting unit, the test report is ready to be printed or saved.

Available electronic digital scales:

With Calibration & Adjustment Weight		Readability [g]	Weighing capacity [g]	Pan size [mm]	Picture
External	Internal				
		0,0001	60	Ø 90	
165.752	165.766	0,0001	120	Ø 90	
165.750	165.788	0,0001	220	Ø 90	
165.784		0,001	220	Ø 120	
165.756		0,001	320	Ø 120	
165.794		0,001	420	Ø 120	
165.754	165.768	0,001	620	Ø 120	
165.772		0,001	650	Ø 120	
165.762		0,01	620	182 x 182	
		0,01	820	182 x 182	
		0,01	1200	182 x 182	
165.760		0,01	2200	182 x 182	
165.786		0,01	3200	182 x 182	
		0,01	4200	182 x 182	
165.758		0,01	6200	182 x 182	
165.804		0,1	2200	182 x 182	
165.764		0,1	5200	182 x 182	
165.806		0,1	8200	182 x 182	
165.716		1	5100	Ø 180	

INCLUDED ACCESSORIES, COUNT ANALYSER II

Electronic counter with balance connecting cable	Code	1666.LAB
Electronic balance (to be selected)		
1 roll of printer paper	Code	1660.14
1 set of printer cartridge	Code	1660.18

OPTIONAL, COUNT ANALYSER II

Calibration report (for the balance)	code	165.CC1

DIMENSIONS / POWER SUPPLY, COUNT ANALYSER II

Weight: 2 kg (balance not included)
Dimensions: (L) 300 x (W) 200 x (H) 120 mm (balance excluded)
Power supply: 115 or 230 Vac, 50/60 Hz, single-phase

INCLUDED ACCESSORIES, COUNT LAB SOFTWARE

- CD with software
- Dongle licence key
- Balance connecting cable

OPTIONAL, COUNT LAB

Electronic balance (to be selected)

REFERENCE STANDARDS

UNI EN ISO 2060, ISO 2060, ISO 3801, ISO 9073-1, ISO 3374, UNI EN 29073-1, UNI EN 12127, UNI 5114, UNI 8014-2/3/4, BS 2471, ASTM D1907, ASTM D2646, ASTM D3776.

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