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PREMOSYS

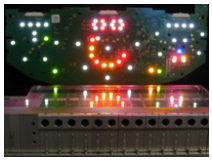
LED-Function Test System MELOT

The system serves for the parallel test of the color and intensity of self-luminescent objects – particularly LED's – in the visible area of light. With this modular system, it is possible to test 1 up to 961 LED's in parallel. The measuring procedure is based on measurements in comparison to reference products by means of user-specific parameters.
Disturbances through environment light are automatically compensated. Color and intensity of the test objects can be separately parameterized and evaluated. The measurement time for e.g. 31 objects amounts to app. 300 ms.

The system provides two different interfaces with the first interface being optimized for the connection via digital I/O's. Therefore, a handshake protocol is utilized which permits a stable communication but, simultaneously, the monitoring of the module's as well as the connection lines' function. The digital interface generates a separated good/bad outcome. The second interface is accomplished as a serial RS232 interface. We also offer RS422 models that can be connected to a bus. This interface is at least needed for the commissioning using the software tool. The module can, moreover, be exclusively operated via the serial interface, allowing the user e.g. to process the sensor values with his own software. Both interfaces can be used simultaneously.

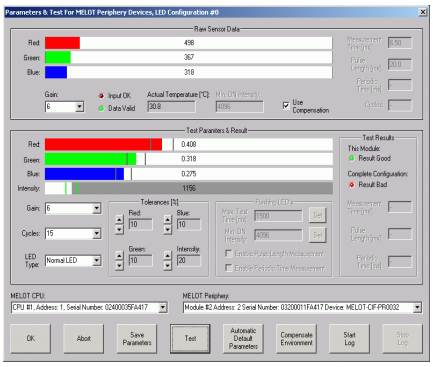
The adaptation of the test objects to the module is carried out via light guides, available in a variety of configurations.

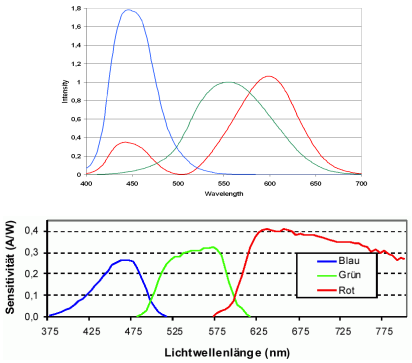
For the use in applications with product adapters (e.g. in-circuit testers) optic handoff units with specific light guides are available. Thus it is possible to test a number of „n" products with only one system which makes it a cost-efficient solution.



Technical data:

- Test of LED's for their color and intensity – also blinking LED's
- Variable interfaces I/O and serial
- Spectral resolution of up to 2nm
- WN 32 DLL
- Detection of products with an intensity <0,5 Cd
- Dynamic >90 db, Wavelength 400 - 700nm
- Temperature compensation within the range from 20-55°C
- Supply voltage 12 or 24V DC
- Patent DE 100 48 447





Dimensions CPU module

- Length: app. 90mm
- Breadth: app. 70mm
- Height: app. 22mm

Weight: app. 200g

Dimensions Peripheral module

- Length: app. 90mm
- Breadth: app. 70mm
- Height: app. 22mm

Weight: app. 200g

Power supply

- 24VDC+/-5%,
- max. 1,5 A

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