

EMCtools

Dual Monoflop



EMCtools
Dipl.-Ing. (FH) Armin Lenk
Meginhardstrasse 50
88356 Ostrach-Magenbuch
Tel: 0176/38139026
info@emctools.de

Introduction and use

Functional tests during e.g. EMC susceptibility tests in test-labs require specific DUT monitoring. Often analog voltages of outputs have to be monitored. In combination with analog fiber optic sensors the EMCtools Dual Monoflop can be used to monitor 2 analog voltage values (e.g. outputs) of the DUT. A lower and a higher voltage trigger limit can be chosen at the EMCtools Monoflop. If the voltage at the input is within or outside (selectable) the defined limits the Monoflop will trigger a TTL compatible output a defined time. This alarm can be used to evaluate failures during tests.

The input voltage range of the EMCtools Monoflop suits perfectly to the fiber optic sensors A100 or A200-series of LANGER EMV-Technik GmbH, Bannewitz.



Setup shows:

Left monoflop input connected to fiber optic sensor receiver LANGER EMV-Technik AE100 (AE100 is not part of EMCtools Dual Monoflop delivery)

Right monoflop input/output connected to BNC cable.

BNC output connectors

Power LED

Trigger LED

Monoflop time

Trigger signal selection switch

input voltage trigger upper limit

input voltage trigger lower limit

BNC input connectors

Photo: Typical setup EMCtools Dual Monoflop:

Technical data

power supply	9 – 15V DC, 50mA, dc jack 5,5/2,1 mm, center pin positive
monoflop time	0.1 – 3s
input voltage limits	0 – 10V, adjustable, scale reading tolerance $\pm 0.5V$
input connectors	BNC
input voltage protection	100V
output	TTL, $R_i = 1k\Omega$
output connectors	BNC
No. of Monoflops:	2

Delivered devices of the system and accessories

1 pcs	EMCtools Dual Monoflop
1 pcs	printed manual
1 pcs	wall plug in power supply