

MARKING UNIT

MU S001 D2 M12X1 12 V

MU S002 D2 M12X1 24 V



Manual and Safety Instructions



www.equip-test.com

The **Marking Units** made by Equip-Test offer exceptional durability and universal usage for ICT, FCT, EOL and any other types of Test Fixtures. Easy placement assembly and flexibility in regard to height adjustment makes this product attractive and popular in all application areas.

Because the outer thread covers the entire length, this makes adjustment very easy. The Marking bit itself is easily exchangeable, and this ensures a high product life-expectancy and high ROI numbers.

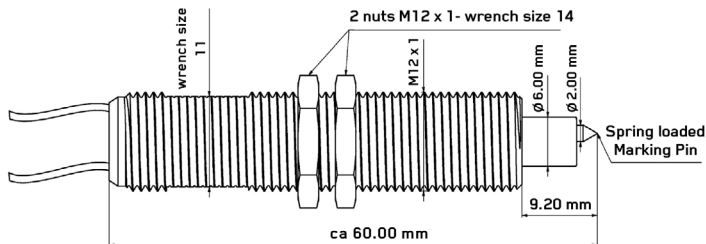
The design allows permanent marking of not only PC-Boards but also all types of materials such as G10/FR4, CEM-1, Plastics, Acrylic and Aluminium.

Fields of Applications:

- PCB test ICT and FT
- Test Adaptors

Customer Benefits:

- Compact design
- Easy integration in existing systems
- Optimal positioning
- Height-adjustability
- Exchangeable Marking Unit
- Spring-loaded Marking Pin
- Wide range of applications



AVOIDING INCORRECT USE



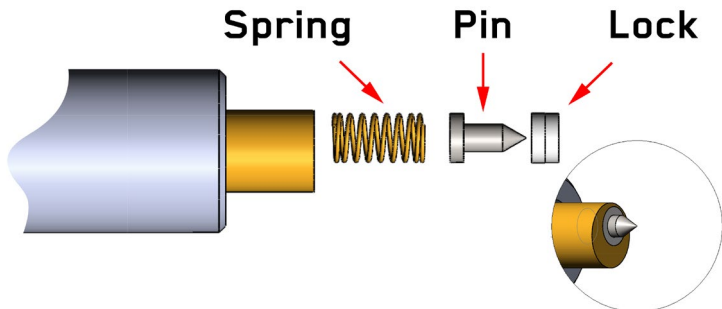
To ensure correct use, the following actions are not permitted:

- Any other than the permitted voltages and currents
- Marking on „live“ surfaces.
- Marking on transfers between materials (edge of the PCB, between PCB and PCB Tracks).
- Never exceed the max. working travel of 2 mm, this is to prevent damage to the gear motor.

REPLACING THE MARKING PROBE

The replacement kit, which consists of a spring, pin and lock, can be exchanged in the event of wear (order no. **RK - MU S001 & S002**). To dismantle, remove the pin with pliers. Fit the new parts in the replacement kit according to the sketch.

For this purpose we can supply an insertion tool (order no. **TRK - MU S001**) which presses the lock into the gear shaft drill hole.



MECHANICAL DATA

Full Travel	2.00 mm
Working Travel	1.50 mm
Pre-Loaded Spring Force	0.55 N
Spring Force at Working Travel	3.10 N
Marked Area	2.0 mm
Recommended Marking Impulse	ca. 1 s

ELECTRICAL DATA

Max. Current Rating	3.0 A
Typical Continuity Resistance	< 30 mOhm
Rated Voltage	12 V (MU S001) 24 V (MU S002)
Output	0.75 W
No-Load Current	3.7 mA
Starting Current	106 mA
Max. Permanent Load Current	81 mA
Terminal Resistance	114 Ohm
Pin no-load Speed	180 min ⁻¹
Max. Pin Torque	54 mNm

MATERIALS

Needle Material	Solid Carbide
External Thread	M12x1 with wrench size SW11