

HEXAN Manual Interface

MCM

The Manual Control Module (MCM) is an interface to the HEXAN that allows you to control the system without using a PC. This device can be used in place of a portable PC with no internal modification to the test set and can therefore be used on any test sets currently in service. The MCM is designed to meet the needs of users for standard tests. Its ease of use coupled with short set-up times and a multitude of pre-programmed functions make it a useful addition to the HEXAN for systematic testing of protection relays.

Description :

- Aluminium case: **243/145/52 mm**,
- Weight: **1 kg**.

Power supply :

- Rechargeable batteries of mains adaptor,
- Operating time: 8 hours without backlighting.



Main functions of injection control :

The functions of Manusoft that simplify testing of coupling cabinets are implemented in the MCM :

- Control of the three voltages and three currents of the HEXAN. Each value is controlled by an up and down button,
- Frequency 40 to 70 Hz on the voltages and currents,
- Phase shift of the voltages from the currents – $180^\circ/+180^\circ$,
- Control of two networks: Pass and Fail,
- Injection mode direct or step by step,
- Simultaneous variation of the three voltages and three currents by linking the controls,
- Moving the neutral point along V1, V2 or V3,
- Variation of the phase-to-phase voltage: U12, U23, U13,
- Differential current mode,
- Vector jump,
- Programming of network sequences.

Timer section and digital injection control :

- Backlit alphanumeric LCD display: **4 lines of 20 characters** for all injection parameters.
- Resolution : **1 ms**
- Range : **0-199.999 s**
- Timer start on injection or external event,
- Cycle measurement (e.g. rearming),
- Programming of volt-free contact in the HEXAN,
- Four independent timer inputs configurable to contact or voltage.

Range resolution :

- 100 mV for voltages
- 10 mA for currents
- 10 mHz for frequency generator
- 0.1° for phase shifter.