



Modulsystem Control Engineering

Series 9500

Control Engineering

Technical Data of the Modules for Control Engineering (Types 9501 ... 9519)

General Technical Data

Apart from a few exceptions, all the modules are designed with time-dependent behaviour so that their jump reply can be measured with a standard oscilloscope, a storage oscilloscope and with a y-t recorder.

Repetition frequencies up to about 125 Hz are possible. Measurements with a recorder can be made as a single process at times in the seconds range.

The process control developed by hps SystemTechnik specially for the Module System for Control Engineering is decisive for the reproducibility and comfort of the measurements.

When using an oscilloscope, this control system allows the measuring process to be repeated cyclically, whereby all the capacitors involved are discharged before every cycle.

A pre-trigger circuit provides an optimum signal representation on the oscilloscope.

Every measuring cycle can be triggered singly for measurements with a recorder. The trigger output is available in connection with the Relay (Type 9131.2) for controlling the nib.

The process control can also be controlled by a PC or PLC through an additional RESET input.

Mechanical construction

The module housings consist of a top section made of unbreakable transparent plastic and a sturdy bottom section made of black, glass-fibre reinforced plastic. The top and bottom sections are held together by two snap-action catches; these enable the housing to be opened quickly and easily.

There are three gold-plated laminated plugs in the base of the housing to plug the modules into the Boards or Assembly Boards. The power supply is fed to the modules through these plugs also. The circuit symbol of the function group contained in the module is printed in white on the front.

Other technical data

- Plug diameter: 4 mm (arrangement in 19 mm grid)
- Operating voltage: +/-15 V DC
- All modules with reverse polarity protection
- All IC components inserted in sockets
- Housing dimensions: 75 x 56 x 35 mm (w x d x h)
- Weight: approx. 0.1 kg

hps SystemTechnik offers 16 modules for conducting experiments in control engineering.

These are illustrated below with designation, technical data and type number.

