



### Model Number

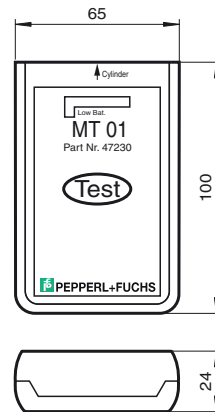
#### MT 01

Magnet system tester for magnet systems in hydraulic cylinders

### Features

- Battery operated
- Display of the magnetic flux density

### Dimensions



### Technical data

#### Electrical specifications

|                   |   |
|-------------------|---|
| Operating voltage | 9 V monobloc battery,<br>accessible via cover at the rear wall of housing |
|-------------------|---|

#### Ambient conditions

|                       |                             |
|-----------------------|-----------------------------|
| Operating temperature | 0 ... 70 °C (273 ... 343 K) |
|-----------------------|-----------------------------|

#### Mechanical specifications

|                   |            |
|-------------------|------------|
| Protection degree | IP40       |
| Material          |            |
| Housing           | ABS, black |

**Function**

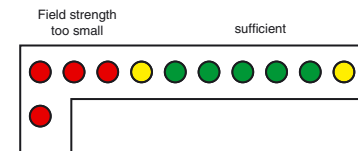
The magnetic system tester MT 01 serves for checking the magnetic system in hydraulic cylinders.

The magnetic field sensor MB-F32 enables the detection of the piston position through the wall of a steel cylinder possible. Additionally a magnetic system must be built in the piston. With the magnetic system tester MT 01 it can be checked that a sufficient magnetic field for the function of the MB-F32 is produced.

The piston with the magnetic system must pass through at least once the stroke of the cylinder. For examination the magnetic system tester is held toward the longitudinal axis directly on the surface of the cylinder. The device is activated by pressing the 'test' button.

10 LEDs indicate the magnetic flux density on the surface of the cylinder:

- 1 red: battery voltage to low
- 1-3 red: field strength too small
- 4 yellow: transient area
- 5-9 green: field strength sufficient
- 10 yellow: field strength max.



The field strength is sufficient, if LEDs light up within the green area. The field strength should be checked over the entire length of the cylinder. In the area of the piston the field strength should be the highest.

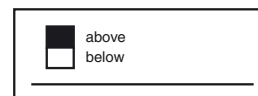
When entering or leaving the switching zone, i. e. where the piston is detected, there is a zero crossover of the field strength, so that none or only red LEDs light up within these small areas.

Others:

Switching of the display:

By means of a switch, which is accessible by opening the battery box and removal of the battery, the LED display can be switched.

The display is switched off during too low battery voltage.



Switch above: bar graph (standard adjustment)  
switch below: LEDs are headed individually.

**Important note:**

With this test normally there will be only a static test with resting piston possible. By higher piston speed and temperatures the field strength can decrease.

Release date: 2008-04-21 11:46 Date of issue: 2008-04-21 047230\_ENG.xml