

Portable Measuring Unit HMG 500

Description:

The HMG 500 is a portable measuring unit for simple measuring tasks in fluid technology such as hydraulics, pneumatics, lubrication, process, refrigeration and air conditioning.

Up to two sensors with Hydac Sensor Interface (HSI) can be connected to the HMG 500 to measure pressure, temperature or flow rate. The HMG 500 automatically recognises these sensors and takes all the necessary basic settings from each sensor. As no manual adjustments are required, the user receives the measurements in the shortest possible time. The measurement values and the corresponding physical unit are displayed on an easy-to-read LCD display.

In addition, the HMG 500 offers a wealth of other advantages over pressure measurement using mechanical pressure gauges on machines and systems. The advantages of electronic measurement are reflected directly in the accuracy of the measurement. The user benefits from a technologically high level of measuring accuracy and dynamics. The HMG 500 measures values at a high sampling rate. It can therefore record, for example, pressure surges in the maximum value memory or fast pressure discharges in the minimum value memory and display them.

Furthermore differential measurements can be carried out using two sensors of a similar type, to calculate pressure drops or temperature differentials.

Compact, simple and versatile - the HMG 500 is an invaluable tool for all those involved in maintenance, commissioning and service.



Special features:

- Portable 2 channel measuring unit
- Simple and user-friendly key operation
- Large LCD display including battery status display
- 2 sensor inputs, automatic sensor recognition
- Measuring range and unit of measurement of the sensors connected to it are recognised automatically
- Zeroing of the individual measurement channels
- Display of the actual measured values
- Display of the differential (channel A - channel B)
- Minimum or maximum values, with reset function

Technical specifications:

Measurement inputs	2 analogue inputs for HYDAC measurement transmitters with HSI interface
Channel A and B Accuracy	$\leq \pm 0.1\%$ FS max.
Functions	<ul style="list-style-type: none">● automatic recognition of measuring range and measurement unit● zeroing of the measuring channels● display of the actual measurement value● min./max. display● reset of the min./max. values● measured values differential channel A - channel B● display of units, selectable
Display	4-digit, 7-segment LCD display with battery status display; 2 measurement values incl. unit displayed simultaneously
Measurement unit	selectable (depending on the sensors connected to HMG) pressure: bar, PSI, MPA temperature: °C, K, F flow rate: l/min, US gallon/min
Measurement rate	0.1 ms
Resolution	12 bit
CE mark	EN 61000-6-1 EN 61000-6-2 EN 61000-6-3 EN 61000-6-4
Safety	EN 61010
Protection class	IP 54
Voltage supply	9V battery Operating time: approx. 10 hours (with 2 sensors) Euro plug mains power lead (230 V AC) available as an accessory
Ambient conditions	Operating temperature: 5 .. 60 °C Storage temperature: -40 .. 70 °C Relative humidity: 0 .. 70 %
Dimensions	100 x 170 x 40 mm
Weight	410 g

Note:
FS (Full Scale) = relative to the full measuring range

Order details:

HMG 500 - 000

Items supplied

- HMG 500
- Operating manual D/E/F
- 9 V battery

Accessories:

Detailed information on accessories can be found in the separate brochure - Accessories HMG 500 / HMG 3000 (No.: 18.065)

Examples of main accessories:

- **Pressure transmitter**
HDA 4000 with HSI interface
Pressure ranges: -1 .. 9 bar, 0 .. 16 bar, 0 .. 60 bar, 0 .. 100 bar, 0 .. 250 bar, 0 .. 400 bar, 0 .. 600 bar
- **Temperature transmitter**
ETS 4000 with HSI interface
Measuring range: -25 .. 100 °C
- **Flow rate transmitter**
EVS 3000 with HSI interface
Measuring ranges: 6 .. 60 l/min, 40 .. 600 l/min, 15 .. 300 l/min, 1.2 .. 20 l/min
- **Sensor simulator** SSH 1000, ideal for training purposes
- **Hydraulic adaptors**

Note:

The information in this brochure relates to the operating conditions and applications described.
For applications or operating conditions not described, please contact the relevant technical department.
Subject to technical modifications.



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