YDAC INTERNATIONAL

Portable Data Recorder HMG 500

Description:

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

Up to two sensors with the HYDAC Sensor Interface (HSI) can be connected to the HMG 500 to measure pressure, temperature or flow rate (except for SMART sensors). The HMG 500 automatically recognises these sensors and takes all of the necessary basic settings from each sensor. 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 mechanical pressure gauges, for example, for measuring pressure on machines and systems.

The user benefits from a technologically high level of measuring accuracy and dynamics.

The HMG 500 measures values at a very high sampling rate. It can therefore record and display pressure peaks in the maximum value memory or rapid pressure discharges in the minimum value memory, for example.

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

To further extend the application range, HMG 500 has a function for setting mechanical pressure and temperature switches precisely and reliably.

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 data recorder
- Simple and user-friendly key operation
- Large LCD display including battery status indication
- 2 sensor inputs, automatic sensor recognition
- Measuring range and unit of measurement of the sensors connected to it are recognised automatically
- Zeroing (taring) of the individual measurement channels
- Display of the actual measured values
- Display of the differential (channel A minus channel B)
- Minimum or maxmum value indication, with reset function
- Setting device for mechanical pressure and temperature switches

Technical data:

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Measurement inputs	2 analogue inputs for HYDAC measurement transmitters
•	with HSI interface
	(except for SMART sensors**)
Accuracy*	\leq \pm 0.1 % FS max.
Functions	 Automatic recognition of measuring range and unit of measurement Taring of the measuring channels Display of the actual meas. value Min./max. indication Reset of the min./max. values Measured values differential channel A - channel B Display of units, selectable Setting device for mechanical pressure and temperature switches
Display	4-digit 7 segment LCD display with battery status indication; 2 measurement values incl. unit displayed simultaneously
Measurement unit	Selectable
(depending on the	
sensors	Temperature: °C, K, °F
connected	Flow rate: I/min, gallon/min
to HMG)	(1 US gallon = 3.7853 l)
Sampling rate	0.1 ms
Resolution	12 bit
(€ mark	EN 61000-6-1 / 2 / 3 / 4
Safety	EN 61010
Protection class	IP 54
Voltage	● 9 V battery
supply	Oper. time: approx. 10 h (with 2 sensors)

Weight Note:

Environmental

conditions

FS (Full Scale) = relative to complete measuring range ** SMART sensors (Condition Monitoring Sensors) are a generation of sensors from HYDAC which can provide a variety of different measurement values.

Operating temp.:

Storage temp.:

Rel. humidity:

410 g

(available as an accessory)

+5 .. +60 °C

-40 .. +70 °C

0 .. 70 %

Dimensions:



Note:

The information in this brochure relates to the operating conditions and applications described.

For applications and operating conditions not described, please contact the relevant technical department. Subject to technical modifications.

Ordering details:

HMG 500 - 000 Items supplied

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

HMG 500-Set 01 Items supplied

- ●HMG 500
- Operating manual D/E/F
- 9 V battery
- HDA 4748-H-0600-000
- ZBE 30-02, sensor cable M12x1, 2 m
- Connection adapter G1/4 female to Minimess 16X2
- Case for HMG 500 / 510

HMG 500-Set 02 Items supplied

- HMG 500
- Operating manual D/E/F
- 9 V battery
- 2 off HDA 4748-H-0600-000
- 2 off ZBE 30-02, sensor cable M12x1, 2 m
- 2 off connection adapter G1/4 female to Minimess 16X2
- Case for HMG 500 / 510

Accessories:

Appropriate accessories, such as electrical and mechanical connection adapters, power supply, etc. can be found in the Accessories brochure.

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: 1.2 .. 20 l/min, 6 .. 60 l/min, 15 .. 300 l/min, 40 .. 600 l/min

Sensor simulator

SSH 1000, ideal for training purposes

• Electrical connection adapter

UVM 3000, for mechanical pressure and temperature switches

Hydraulic adapters

HYDAC ELECTRONIC GMBH

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