

HMG 510 Series



General Specifications

Items supplied:

- HMG 510
- Manual Ger/Eng/Fra
- 9 V battery
- USB cable
- Y adapter, blue (for HLB 1000)
- Y adapter, yellow (for CS 1000)
- Sensor cable M12x1 (2 m)
- CD-ROM with CMWIN software
- Case for HMG 510

Dimensions: 3.94 x 6.69 x 1.57 in. (100 x 170 x 40 mm)

Weight: 0.90 lbs (0.41 kg)

Operating/Ambient Conditions

Operating temperature: 41° - 122°F (5° to 60°C)

Storage temperature: -40° - 158°F (-40° to 70°C)

Relative humidity: 0 to 70 %

Power Supply

A standard 9V battery is sufficient for operation. The unit can also be operated using the AC mains adaptor plug listed under Accessories. If you have any questions, suggestions, or encounter any problems of a technical nature, please contact your HYDAC sales office.

Special Features

Adjustment function for mechanical pressure switches

General

The HMG 510 Portable Data Recorder is a hand-held unit for simple measurement tasks on hydraulic and pneumatic systems. Typical applications are primarily to be found in analysis, maintenance and servicing.

The HMG 510 features two analog inputs. HSI sensors (*HYDAC Sensor Interface*) or SMART sensors can be connected to these inputs. HSI sensors are HYDAC sensors featuring automatic sensor recognition. Consequently, manual adjustments of the measurement range settings are no longer required.

Furthermore the HMG 510 is capable of measuring and displaying the differential between the values on channel A and B (channel A-B), providing two sensors featuring the same unit of measurement are connected.

In addition, the HMG 510 features a tare function enabling it to be zeroed.

The HMG 510 features a USB interface in addition to the HMG 500. The HMG 510 is also designed to work with the HYDACLab® and the CS1000 particle counter.

Technical Details

Sensor inputs:

The HMG 510 features two analog inputs with automatic sensor detection at 2 input jacks (*channel A and B*). Only HSI sensors (*pressure, temperature or flow rate transmitters*) and SMART sensors (*moisture, temperature and flow rate sensors*) can be connected.

Channel A and B:

- Automatic sensor recognition for HSI and SMART sensors; automatic setting of the measurement range and unit of measurement
- Measured value differential for channel A - B

Measurement accuracy of the input channels:

- $\leq +0.1\%$ of the measurement range

Measurement rate:

- 0.1 ms

Measurement & Display:

- Current measured value
- Min/max values
- Measured value differential
- Change of the unit of measurement

Operating time using 9 V battery (2 sensors):

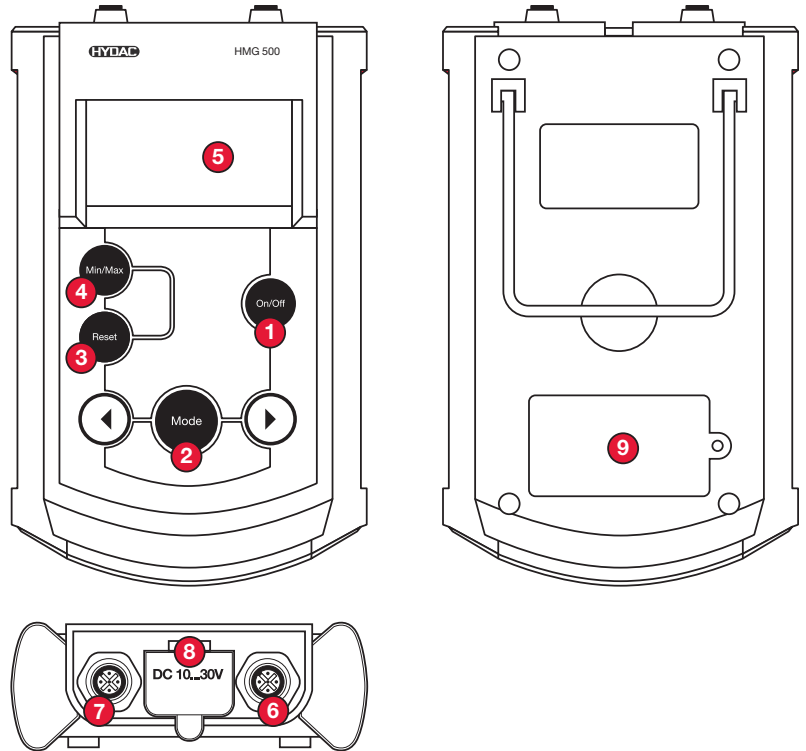
- approx. 10 hours

Standards with Which the HMG 510 Complies

- EMC: EN 61326-1+A1+A2
- Safety: EN 61010
- Protection rating: IP 54

HMG Display Panel & Connections

1. **On/Off button**
2. **Mode**
Adjusting the menus
3. **Reset**
Resetting the min/max values
4. **Min/Max**
Display of the minimum and maximum values
5. **Display**
6. **Sensor Input Connector (Channel A)**
7. **Sensor Input Connector (Channel B)**
8. **Protective Cover**
Connection for AC adaptor and mini USB connection
9. **Battery Compartment**



Diagnostic Unit

Model Code	Description	Part No.
HMG 510-000-E	Includes: <ul style="list-style-type: none"> • HMG 510-000-E with Manual • 9V Battery • USB cable • Y adapter, blue (for HLB 1000) • Y adapter, yellow (for CS 1000) • Sensor cable M12x1 (2 m) • CD w/ CMWIN software • Case for HMG 510 	00909889

Pressure Transducer with HSI

(HYDAC Sensor Interface)

Model Code	Description	Part No.
HDA 4748-H-0009-000	-15 to 131 psi (-1 to 9 bar)	00909429
HDA 4748-H-0016-000	0 to 232 psi (0 to 16 bar)	00909425
HDA 4748-H-0060-000	0 to 870 psi (0 to 60 bar)	00909554
HDA 4748-H-0100-000	0 to 1450 psi (0 to 100 bar)	00909426
HDA 4748-H-0250-000	0 to 3626 psi (0 to 250 bar)	00909337
HDA 4748-H-0400-000	0 to 5802 psi (0 to 400 bar)	00909427
HDA 4748-H-0600-000	0 to 8702 psi (0 to 600 bar)	00909428

Temperature Transducer with HSI

(HYDAC Sensor Interface)

Model Code	Description	Part No.
ETS 4548-H-000	-13° to 212°F (-25° to 100°C)	00909298

Flow Sensor with HSI (HYDAC Sensor Interface)

Model Code	Description - g/min (l/min)	Part No.
Aluminum		
EVS 3108-H-0020-000	0.3 to 5.3 (1.2 to 20)	00909405
EVS 3108-H-0060-000	1.6 to 15.9 (6 to 60)	00909293
EVS 3108-H-0300-000	4.0 to 79.3 (15 to 300)	00909404
EVS 3108-H-0600-000	10.6 to 159 (40 to 600)	00909403
Stainless Steel		
EVS 3118-H-0020-000	0.3 to 5.3 (1.2 to 20)	00909409
EVS 3118-H-0060-000	1.6 to 15.9 (6 to 60)	00909406
EVS 3118-H-0300-000	4.0 to 79.3 (15 to 300)	00909408
EVS 3118-H-0600-000	10.6 to 159 (40 to 600)	00909407

Accessories

Model Code	Description	Part No.
ZBE 30-02	cable for M12x1 - 2 meters	06040851
ZBE 30-05	cable for M12x1 - 5 meters	06040852
UVM 3000	Universal adapter	00909752
ZBE 26	Y adaptor, blue	03304374
ZBE 41	Y adaptor, yellow	00910000
USB Cable	Mini USB cable	06049553
USB Cable	Connection to PC	06040585
Power Supply	24 VDC power supply	02702416