HYDAC INTERNATIONAL


# Power Amplifier
## Analog, 2 solenoids
EHCD-AM002XXXR

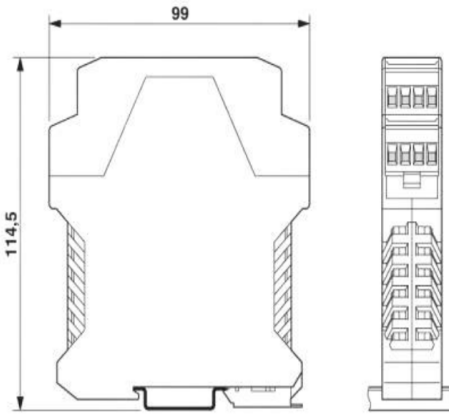
**Analog Power Amplifier for proportional valves with two solenoids**

The MIN, MAX, RAMP and DITHER settings are entered using a potentiometer. These power amplifier works with an internal micro controller.
An output current range from 1.0 A to 2.6 A can be implemented.
Notification of typical faults, such as a cable break in the input signal (4...20 mA) or a cable break in the connection to the solenoids, is provided by the LEDs.

**Technical Data:**

| | | |
|---|---|---|
| Supply voltage | [VDC] | 12... 30 (incl. ripple) |
| Current consumption | [mA] | < 100 plus solenoid current |
| External fuse | [A] | solenoid current dependent, medium time-lag |
| Reference voltage | [V] | 8 (max. 10 mA) |
| Setting | | |
| MIN | [%] | 0... 75 |
| MAX | [A] | 1.0, 1.6 or 2.6 (adjustable via DIL) |
| | [%] | 30... 100 (via MAX potentiometer) |
| RAMP | [s] | 0.1... 15 |
| DITHER | [Hz] | 120 |
| | [%] | 0... 17.5 (in increments of 2.5) |
| Analog inputs | [V] | ±5 / ±10 / 0... 10 (90 kΩ) |
| (set point) | [mA] | 4... 20 (500 Ω) |
| Signal resolution | [%] | < 0,1 incl. Oversampling |
| PWM power outputs | [A] | 1.0, 1.6 or 2.6 (adjustable via DIL) |
| PWM frequency | [Hz] | 80-340 or 2000 |
| Controller sampling time | [ms] | 1 |
| Solenoid current control | [ms] | 0,167 |
| Housing | | Snap-on module in accordance with EN 50022 |
| | | Polyamide PA6.6 |
| | | Flammability class V0 (UL94) |
| Housing width | [mm] | 23 |
| Protection class | IP | 20 |
| Temperature range | [°C] | -25... +60 |
| Humidity | [%] | < 95 (non-condensing) |
| Connections | | 4 x 4-pin connection blocks |
| | | PE: via DIN support rail |
| EMC | | EN 61000-6-2: 2005 |
| | | EN 61000-6-3: 2007 + A1: 2011 |

## Dimensions:
(For width, see technical data)




## Type Code Power Amplifier → analog, 2 solenoids

EHC D – A M 002 X X X R

**Electro-hydraulic control**

**Type of drive**
D = decentral

**Product group**
A = Amplifier

**Building type**
M = Module

**Functionality**
002 = Proportional valve, 2 solenoids

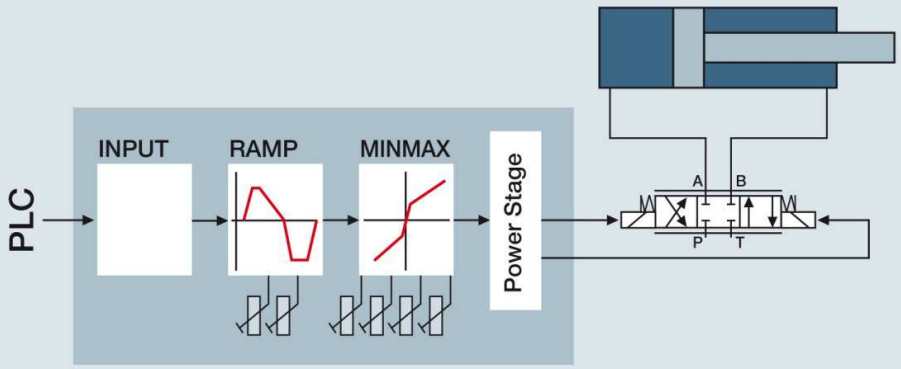
**Bus interface**
X = none

**Sensor interface**
X = none

**Closed loop control system**
X = none

**Parameter setting**
R = Potentiometer → **not with Profibus DP** ←

## Block Diagram:




## 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.

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