

Programming Devices Programming Adapters

The programming of sensors directly at the system, quick 1:1 replacement of sensors, sensor data transmission from one device to another – these are today's fundamental requirements in order to ensure optimised processes and high machine availability.

For HYDAC's own programmable pressure switches and IO-Link sensors, HYDAC offers a variety of programming devices and programming adapters, ideally suited to satisfy the customer's requirements.

Device-specific	Programming devices		Programming adapter *)
	HPG 3000 	HPG P1 	ZBE P1 
EDS 4000	✓		✓
EDS 4000 Ex ia, with ATEX approval	✓		✓
EDS 4000 Exd, with ATEX, CSA, IECEx approval	✓		✓
EDS 820 IO-Link		✓	✓
EDS 3000 IO-Link		✓	✓
ETS 3000 IO-Link		✓	✓
ENS 3000 IO-Link		✓	✓
HNS 3000 IO-Link		✓	✓

*) in conjunction with a PC and the HYDAC software ZBE P1-WIN, which is delivered with the device.

Note: With the portable data recorder HMG 4000, it is also possible to parameterise the IO-Link products.

Programming device HPG 3000:

Device designed for the adaptation of the HYDAC programmable pressure switches EDS 4000 series to the relevant application, even directly at the plant.



Technical Data

Supply voltage	18 .. 32 V DC
Current consumption	≤ 35 mA + sensor
Ambient temperature range	-25 .. + 80 °C
Storage temperature range	-40 .. 80 °C
CE mark	EN 61000-6-1 / 2 / 3 / 4
Power supply connection (power supply via the respective sensor supply or via HMG 4000 / ZBE P1)	Male M12x1, 4 pole
Display	4-digit, LED, 7 segment, red, height of digits 7 mm
Weight	~ 120 g

Order details:

HPG 3000-000

Part no.: 909422

Programming device HPG P1:

Designed for the programming of HYDAC IO-Link sensors directly at the plant.

Allows sensor settings to be copied and transmitted easily from one device to another.

If direct programming of the sensor at the plant is not necessarily required, parameter sets can also be transmitted from the HPG P1 to a HYDAC portable data recorder HMG 4000, or to a PC (via the HYDAC programming adapter ZBE P1) and imported again after processing.



Technical data:

Supply voltage	18 .. 32 V DC
Current consumption	≤ 35 mA + sensor
Ambient temperature range	-25 .. + 80 °C
Storage temperature range	-40 .. 80 °C
CE mark	EN 61000-6-1 / 2 / 3 / 4
Power supply connection (power supply via the respective sensor supply or via HMG 4000 / ZBE P1)	Male M12x1, 4 pole
Display	4-digit, LED, 7 segment, red, height of digits 7 mm
Weight	~ 120 g

Order details:

HPG P1-000

Part no.: 925316

Programming adapter ZBE P1:

Designed for the programming of HYDAC ELECTRONIC programmable pressure switches and IO-Link sensors in conjunction with a PC and the HYDAC software ZBE P1-WIN which is delivered with the device.



Technical data:

External supply voltage	24 V DC
Current consumption	≤ 35 mA + sensor
Residual ripple	≤ 5 %
Current consumption at USB	Max. 500 mA (with sensor)
Storage temperature range	- 40 .. 80 °C
CE mark	EN 61000-6-1 / 2 / 3 / 4
Power supply connection	USB connection to PC or M12x1 for integration into the system concept or external power supply unit
Display	3 LEDs (USB status / status of supply voltage of unit to be programmed / status of communication)
Weight	~ 170 g

Order details:

ZBE P1-000

Part no.: 923695

Supplied with the instrument: one connection cable ZBE 30-02 (M12x1, 5 pole, 2 m, part no. 6040851), one USB cable (part no. 6040585) and the software ZBE P1-WIN.

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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