



Circular motorised damper with differential pressure control

ACDPH series are circular motorised dampers with integrated differential pressure control, that regulate the air flow in duct systems. The unit has dedicated holding registers to activate manually zero-point calibration and reset the internal Modbus registers to default values. The supply voltage is 24 VDC. All parameters are accessible via Modbus RTU communication.

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- 24 VDC supply voltage via RJ45 connector or terminal block
- Maximum input current: 100 mA
- Modbus RTU communication via RJ45 connector or terminal block
- Built-in digital high resolution differential pressure sensor
- Power consumption: max. 2,4 VA
- Enclosure material: ABS 10GF, grey colour
- Compatible with Senteraweb for remote control and online monitoring
- Fits circular air ducts with standard dimensions

Area of use

- Control air volume flow in air ducts
- Control fresh air supply for each room separately
- Control ventilation in buildings

		Article code
Article code	Imax	Connection type
ACDPH-125	100 mA	RJ45 or terminal block

Indications



On	Damper blade is fully closed (zero position)
Blinking	Indicates normal operation of the damper
On	Damper blade is fully open (90 °)
	Modbus RTU communication and 24 VDC power supply can be connected via the RJ45 socket
Modbus RTU communication, 24 VDC power supply and the control input can be connected via the terminal block	
	Put a jumper onto pins 1 and 2 and wait for at least 15 seconds to reset the Modbus communication parameters
	Put a jumper onto pins 3 and 4 and restart the supply to enter bootloader mode
	On Blinking On Modb

Note: When the actuator is in bootloader mode, LED 3 is flashing. During the firmware download, LED 2 and LED 3 are flashing simultaneously.



Wiring diagram

RJ45 socket (Power over Modbus)		
Supply voltage 24 VDC		Pin 1
Supply Voltage, 24 VDC	24 VDC	Pin 2
Modbus RTIL communication signal A	А	Pin 3
Houbus Kro communication, signal A		Pin 4
Modbus RTU communication, signal /B	/В	Pin 5
		Pin 6
Power over Modbus supply 24 VDC	GND	Pin 7
		Pin 8
RJ45	GND = mm 8 /B = mm 6 A = mm 4 3 4 VDC = mm 1 1	24
Terminal block		
Supply voltage 24 VDC	VIN	

VIN	Supply voltage 24 VDC
GND	Supply voltage, ground
А	Modbus RTU communication, signal A
/B	Modbus RTU communication, signal /B

Attention! The damper needs to be supplied via the RJ45 connector or via the terminal block. Do not connect supply voltage via both simultaneously!

Modbus registers



The Sensistant Modbus configurator allows you to easily monitor and/or configure Modbus parameters.

The parameters of the unit can be monitored / configured through the 3SModbus software platform. You can download it from the following link:

https://www.sentera.eu/en/3SMCenter

For more information about the Modbus registers, we refer to the Modbus Register Map of the product.



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	Global trade item numbers (GTIN)
Packaging	
ACDPH-125 (unit)	05401003018637