

# DOL 18 Sub-pressure Sensor

For reading or controlling the pressure in livestock houses and central ducts.

## Controlling the pressure

The DOL 18 electronic sub-pressure sensor is used in connection with climate and production computers, for climate monitoring among other things.

The DOL 18 electronic sub-pressure sensor can be used for reading or controlling the pressure in the livestock house and for generating an alarm in case of too low or too high pressure.

Furthermore, the DOL 18 electronic sub-pressure sensor is often used for pressure control in central ducts. For instance, in connection with air cleaning systems.

## Optimum ventilation

Using negative pressure ventilation systems in swine and poultry production, the level of sub-pressure is an important factor.

DOL 18 sub-pressure sensor provides updated data on the sub-pressure ensuring that the ventilation system can maintain air quality, temperature, and air movement in the most efficient way.

## Benefits

- Optimum ventilation parameters for animals
- Increased proper animal welfare
- Energy saving

## Advantages

- Control air flow with negative pressure
- Adjustable measuring ranges and outputs in dipswitch
- IP 66 protection



## DOL 18 Electronic sub-pressure sensor



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### Product overview



#### **140333 DOL 18 v2 electronic sub-pressure sensor 100 Pa**

The electronic pressure sensor can, for example, be used for monitoring house pressure.

Plastic hose (300085) is not supplied.

#### **140334 DOL 18 v2 electronic sub-pressure sensor 300 Pa**

The electronic pressure sensor can, for example, be used for monitoring house pressure.

Plastic hose (300085) is not supplied.



#### **140235 DOL 18 hose set**

Hose set for DOL 18 electronic sub-pressure sensor.

## Technical data

		Unit	Value
Pressure limits	Max. operation (100Pa version)	PSI	3.6
	Max. operation (300Pa version)	PSI	6
	Burst (both versions)	PSI	6
Accuracy		% FSO	+/- 1
<b>2-wire</b>	Supply voltage	V	11-35
	Measurement signal	mA	4-20
	Shunt resistance	$\Omega$	50-1250 (see graph)
<b>3-wire</b>	Supply voltage	VDC	17-36
		VAC	21.6-33
	Output signal	V	0-10 / 0-5 (DIP switch setting)
	Load resistance	k $\Omega$	>100
<b>4-wire</b>	Supply voltage	V	18-35
	Measurement and output signal	mA	4-20
		V	0-10 / 0-5 (DIP switch setting)
	Shunt resistance	$\Omega$	50-900 (see graph)
Load resistance	k $\Omega$	>100	
Stability		% FSO / year	+/- 1
Reaction time	DIP switch setting		Instantaneous or 3 sec.
Power consumption		mA	Max. 25
Electrical connections	2-wire	mA	4-20
	3-wire:	V	0-10 (0-5)
	4-wire	mA	4-20
		V	0-10 (0-5)
	Terminal block	AWG	16-26
Electrical entry	1/2" NPS thread		
	Cable gland for cables $\varnothing$ 5 - 9 mm		
Tube connection	Inner diameter tube	"(mm)	1/8", 1/16", 1/4", 5mm, 6mm
Temperature, storage		$^{\circ}$ C	-20 – 70
Temperature, operation		$^{\circ}$ C	-20 - 70
IP class		IP	66
		NEMA	4X
Mounting orientation	Vertical		
Weight		g	230

\*FSO = Full Scale Output.