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E Plus E Elektronik EE600 Differential Pressure Sensor User Guide

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E Plus E Elektronik EE600 Differential Pressure Sensor

Specifications

- **Model**: EE600 – Differential Pressure Sensor
- **Analogue Outputs:** 2-wire (15 – 35 V DC), 3-wire
- **Electrical Connection**: P15ow-e3r5sVupDpCly
- **User Interface:** LED Indication – Green LED Flashing, Red LED Flashing
- Mounting Examples Available

PLEASE NOTE

Find this document and further product information on our website at
www.epluse.com/ee600.
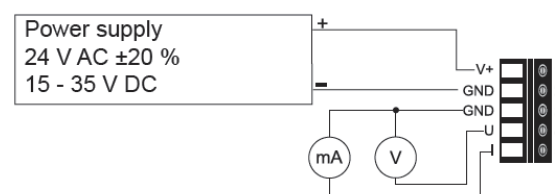
Electrical Connection

WARNING: Incorrect installation, wiring or power supply may cause overheating and result in personal injury or property damage. Cables must not be under voltage during electrical installation and connection or disconnection, especially at terminal connections on circuit boards. For correct cabling, always observe the presented wiring diagram for the product version used. The manufacturer cannot be held responsible for personal injury or damage to property caused by incorrect handling, installation, wiring, power supply or maintenance of the device.
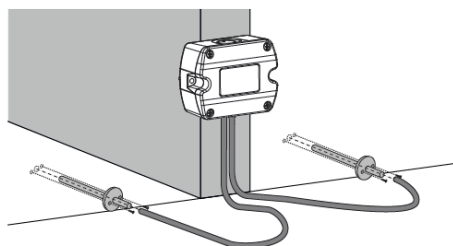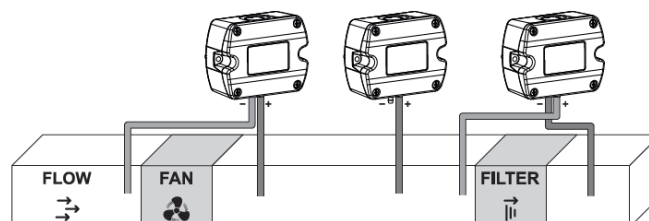
Analogue Outputs

2-wire

Power supply
15 - 35 V DC

+

−

mA

V+
OUT1

1
2

3-wire

Power supply
24 V AC ±20 %
15 - 35 V DC

+

−

V+
GND
GND
U
I

1
2
3
4
5

mA   V

Installation

Pressure Connection

Mounting Examples

FLOW

FAN

FILTER

Use a Ø7.5 mm drill to install the pressure connection nipples into the duct.

User Interface

LED Indication

Green LED		Red LED	
Flashing (1 s interval)	EE600 operates normally, the measured data is within the selected measuring range	Flashing (1 s interval)	The measured data is out of the selected range (overload or reversed pressure connection)
One flash (2 s)	Confirms adjustment or return to factory settings	One flash (2 s)	Indicates the failure of the attempt to adjust zero point or span point, or to return to factory a

Off	No power supply or electronics failure	djustment
Fast flashing (0.2 s interval)	Auto-zero is executed (first time 90 min after start / reset)	

EE600 with 2-wire Analogue Output

1. Measuring range: 100 % = max. / customised range, other MR of max. range
2. No function
3. Auto-zero version only
4. These and further settings can be changed with PCS10 via USB configuration adapter (HA011066) while DIP switch S9 = 1
5. **Measuring range examples:**
   - S1 = 1, S2 = 0, S9 = 0, S10 = 1 0…750 Pa or 0…7 500 Pa
   - S1 = 0, S2 = 0, S9 = 0, S10 = 0 ±1 000 Pa or ±10 000 Pa or customised measuring range

PLEASE NOTE

The 2-wire version allows manual zero-point adjustment at 90-minute intervals if an autozero valve is present.

EE600 with 3-wire Analogue Output

S1	S2	MR1)	S3	S4	Time	S5	S6	Unit	S7	DPB[2])
0	0	100 %	0	0	50 ms	0	0	Pa	0	On

1	0	75 %	1	0	500 ms	1	0	mbar	1	Off
0	1	50 %	0	1	2 s	0	1	inch WC		
1	1	25 %	1	1	4 s	1	1	kPa		

S8	Output	S9	Setting[3]	S10	Measuring Direction [4]
0	0-10 V / 4-20 mA	0	DIP switches	0	Bidirectional
1	0-5 V / 0-20 mA	1	PCS10	1	Unidirectional

1. **Measuring range:** 100 % = max. / customised range, other MR of max. range
2. Display backlight
3. These and further settings can be changed with PCS10 via USB configuration adapter (HA011066) while DIP switch S9 = 1
4. **Measuring range examples:**
   - S1 = 1, S2 = 0, S9 = 0, S10 = 1 0…750 Pa or 0…7 500 Pa
   - S1 = 0, S2 = 0, S9 = 0, S10 = 0 ±1 000 Pa or ±10 000 Pa or customised measuring range

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FAQ

Q: How can I change the settings of the sensor?

A: Settings can be changed using DIP switches or PCS10 via USB configuration adapter while ensuring specific switch positions.
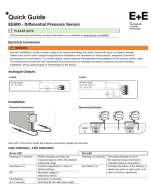
Q: What does the red LED flashing indicate?

A: The red LED flashing indicates that the measured data is out of the selected range or there is a failure in adjusting zero point or span point.

Q: How do I know if the sensor is operating normally?

A: The green LED flashing at specific intervals indicates normal operation and that the measured data is within the selected measuring range.

Documents / Resources

[E Plus E Elektronik EE600 Differential Pressure Sensor](#) [[pdf](#)] User Guide EE600, EE600 Differential Pressure Sensor, Differential Pressure Sensor, Pressure Sensor, Sensor

References

- [User Manual](#)

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