Strumenti e Controlli

- Strumenti per Indicazione
- Strumenti per Misura
- Strumenti per Regolazione




SCHEDA PRODOTTO

DPT-FLOW

Qflow®

Misuratori di Portata Aria
Each device is individually temperature compensated.
Each device has autozero element which makes it fully maintenance free.

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DESCRIZIONE

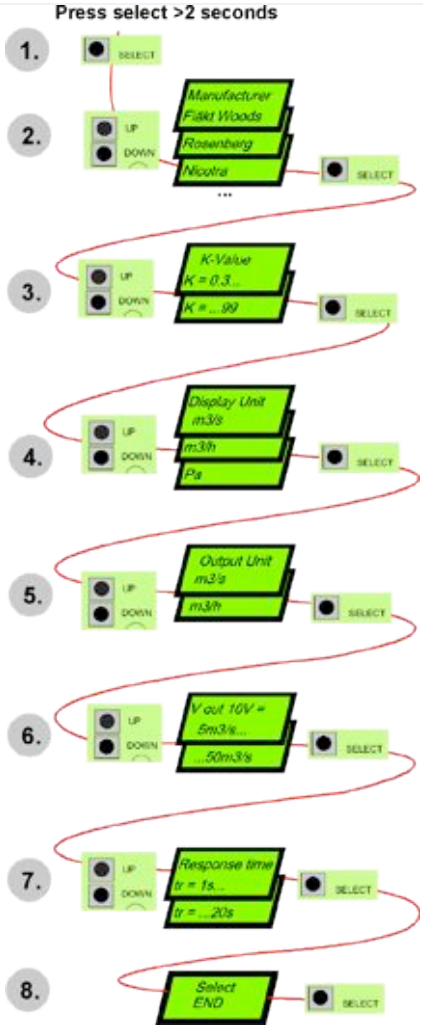
DPT Flow *- D for display*	P range	Supported FAN manufacturers	Accuracy for pressure **) over operation temp. -5...+50°C	Long term stability typ. Pa / year
DPT Flow (-D) -7000	0 ÷ 7000 Pa	Fläkt Woods Rosenberg Nicotra Comefri Ziehl Ebm-Papst	± 7Pa + ± 1,5% from reading	≤ ± 1Pa

**) including: general accuracy, temperature drift, linearity, hysteresis and repetition error

CARATTERISTICHE

- Display

	Alphanumeric display with MENU user interface The display can be ordered separately for installation purposes.
Max. pressure	25 kPa
Bursting. pressure	50 kPa
Suitable media	Air and non-aggressive gases
Measuring element	Piezoresistive
MENU selections and initialisation instructions for installation	If buttons are not pressed within 20 seconds the device returns to the normal measuring mode.



1. Press Select > 2seconds to start the menu.

2. Selection of the manufacturer of FAN

3. Each FAN has its own specific K-value.
Please see the right K-value from the datasheet of the FAN:
Fläkt Woods.....(k=0,3…99)
Rosenberg.....(k=37…800)
Nicotra.....(c=10…1500)
Comefri.....(k=23…158)
Ziehl.....(k=10…1500)
Ebm-Papst.....(k=10…1500)

4. The unit shown on the display m^3/s, m^3/h or Pa

5. Output unit for defining the output scale

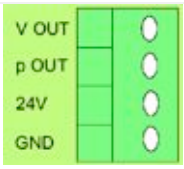
6. Output scale, selectable range depends on the chosen output unit.
m^3/s 10V = 5…50 m^3/s
m^3/h 10V = 20 000 … 200 000 m^3/h
0 V is always 0 m^3/s and 0 m^3/h

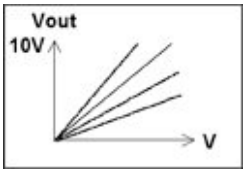
7. Stepless response time selection.
Tr can be selected to be 1 s … 20 s.
Tr is the time when output has changed 63 % from the final value of the output.

8. Presse send and the device returns the normal measuring mode

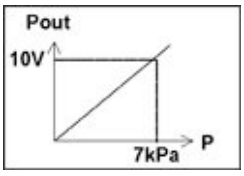
- **Electrical interface**

Supply voltage	24 VAC or VDC 10%
Power consumption	< 1.0 W
Output signal	Vout 0...10 VDC, Load R minimum 1k Pout 0...10 VDC, Load R minimum 1k





V out scale can be changed



- **Materials**

Housing	ABS
Cover	ABS
Pressure connections	ABS
Duct connections	ABS
Tubing	PVC, soft

- **Connections**

Electrical connections	4 screw terminals, max 1.5 mm^2
Cable entry	M16
Pressure connections	Male ø 5,0 mm and 6,3 mm

- **General Ambient Condition**

Temperature range	
Operation	-5 ÷ + 50 °C
Storage	-20 ÷ + 70 °C

Ambient Umidity	0 ÷ 95 % RH
• **Safety**	
Protection standard	IP54
• **Conformance**	**Meets the requirements for CE marking:**
	EMC directive 89/336/EEC
	Rohs Directive 2002/95/EY

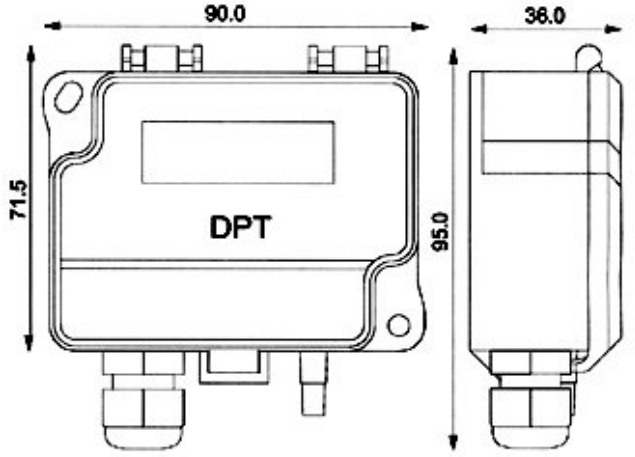
• **Auto zero element**

Auto zero element makes the DPT FLOW meter maintenance free. Element automatically adjusts the transmitters zero point from time to time, this eliminates the zero point long term drift of the piezoresistive sensing element.

During zero point adjustment the output and display values will freeze to the latest measured value. The automatic zero point adjustment takes 4 seconds. Zero point adjustment is carried out every 10 minutes normally and during warm up the time is shorter a few times.

• DIMENSIONI — Disegno Ingombro

P_Peso [kg] P_**0,150**
H_Altezza [mm] H_**71,5** • HT_**95,0**
W_Larghezza [mm] W_**90**
D_Profondità [mm] D_**36**



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		Rev	Data Modifica	Redatto	Approvato	L	Pag	kb
_LG	Legenda Sigle e Icone							
_LP	Strumenti e Controlli	01	2005-12-15	NS_C.M	F. Franceschi	IT	-	-
_ST_A3	DPT_2w_ita.pdf	01	2005-12-15	NS_C.M	F. Franceschi	IT	-	-
_ST_A4	ST_DPT-Flow	01	2005-12-15	NS_C.M	F. Franceschi	IT	-	-

• SETTORI Utilizzo

• 0003_001 — **Cabine di Verniciatura**

AER_BT_CVG_8S.pdf — Guida al Calcolo e alla Scelta dei Filtri per il Particolato

DC_CVFE — Sistemi Filtrazione • Formule ed Esempi