8.2 Air-mass sensors HFM with digital interface



Product type

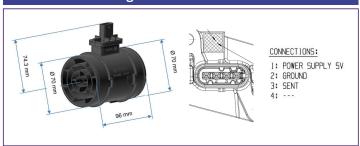
HFM-8-PTH 4.7

Part number

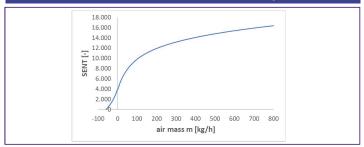
0 280 218 07T



Dimensional drawing



Air-mass characteristic curve at ambient temperature



Technical data			
Features		With integrated pressure, humidity and intake air temperature sensor	
Interface	SENT		
Nominal airflow	$\dot{m}_{ m N}$	480 kg/h	
Measuring range airflow	ṁ	-60+800 kg/h	
Measuring range pressure	kPa	10 120	
Measuring range humidity	%rH	0 100	
Rated supply voltage	U_N	5 V	
Supply-voltage range	U_{V}	4,85 5,15 V	
Relative accuracy 1)	Δ <i>ṁ / ṁ</i>	± 1.5 %	
Temperature range ²⁾	°C	-40 +130	
Pressure drop at $\dot{m}_{ m N}$	Δp	≤ 7 hPa	
Current input	I _V	< 0,03 A	
Time constant	$ au_{63}^{\ 3)}$	≤ 10 ms	
Time constant	τΔ 4)	≤ 30 ms	

1) for $0.025 \le \Delta m/mN \le 1.0$ 2) short-time (≤ 3 min,) to $140 \le 1$ 3) Time required for step response of output voltage to 63 % of final value given an abrupt change in air mass from 10 kg/h to 310 kg/h
4) Delay on switch-on and after any change in flow rate until the output voltage has attained the relative measurement deviation $|\Delta m/m| \le 5 \%$.

Accessories		

Connector 4-pin Hirschmann 872-975-...02 Option 1, Spec. 2, Code A

Accessories are not included in the scope of delivery of the sensor and therefore to be ordered separately as required.

► Product groups