



FS5-Flowmodule

Thermal Mass Flow Sensor

For gas flow sensor evaluation

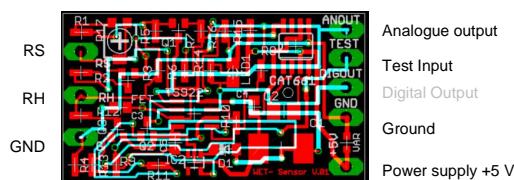


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Benefits & Characteristics

- Easy to use plug & play module
- Simple constant temperature anemometer
- Simple gain adjustment
- No microprocessor or software influenced signal
- Power supply over USB possible
- Customer specific sensor available upon request

Illustration



Technical Data

Dimensions (L x W in mm):*	45 x 25
Operating measuring range:	0 m/s to 100 m/s
Accuracy:	< 5 % of the measured value (dependent on the electronics and calibration)
Temperature range:	-40 °C to 85 °C (module)
Temperature sensitivity:	< 0.5 % / K
Contacts:	solder pads on PCB
Heater resistance:*	$R_H(0 \text{ }^\circ\text{C}) = 45 \text{ Ohm} \pm 1 \%$
Temperature sensor:*	$R_s(0 \text{ }^\circ\text{C}) = 1200 \text{ Ohm} \pm 1 \%$
Max. supply voltage (typical):	5 V DC +/- 5 % (internal main voltage is 10 V)
Warm-up time:	< 30 s
Analogue output, non linear:	0 V (2) to 10 V; 50 mA (operating point at still air = 3.5 V)

* Customer specific alternatives available

Order Information - Solder Pads¹⁾

	FS5-Flowmodul
Order code	160.00001

1) The module does not contain any sensor. The sensor should be ordered separately.



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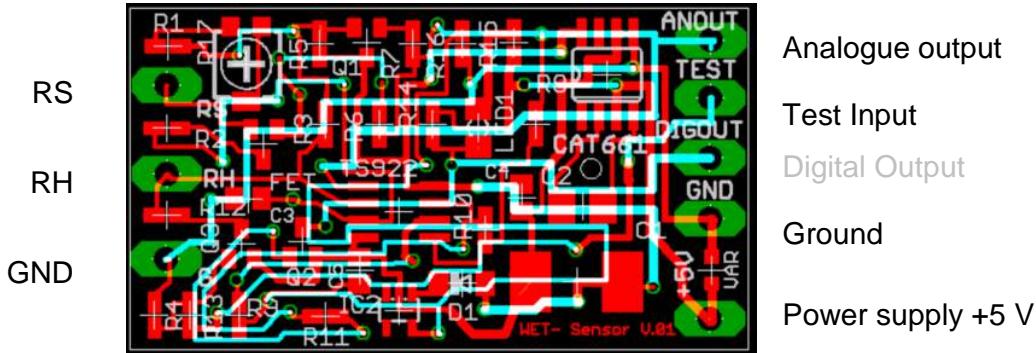
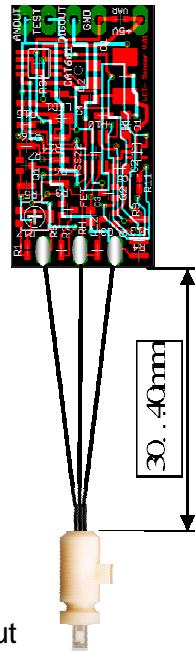
Application notes



Please note:

Module has no output short circuit protection and inverse polarity protection of power supply

The module intern main voltage is 10Volts (2 x power supply).



Analogue output

Test Input

Digital Output

Ground

Power supply +5 V

All mechanical dimensions are valid at 25°C ambient temperature, if not differently indicated. ■ All data except the mechanical dimensions only have information purposes and are not to be understood as assured characteristics. ■ Technical changes without previous announcement as well as mistakes reserve. ■ The information on this data sheet was examined carefully and will be accepted as correct. No liability in case of mistakes. ■ Load with extreme values during a longer period can affect the reliability. All rights reserved. The material contained herein may not be reproduced, adapted, merged, translated, stored, or used without the prior written consent of the copyright owner. Typing errors and mistakes reserved. Product specifications are subject to change without notice. All rights reserved



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