FLOW

TEMPERATURE

HUMIDITY

CONDUCTIVITY

FS5-Flowmodule

Thermal Mass Flow Sensor

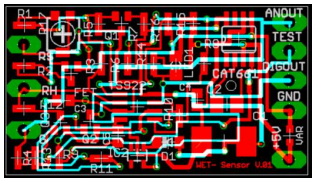
For gas flow sensor evaluation

INNOVATIVE SENSOR TECHNOLOGY

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



Analogue output

Test Input

Digital Output

Ground

Power supply +5 V

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 °C) = 45 Ohm +/- 1 %
Temperature sensor:*	R_s (0 °C) = 1200 Ohm +/- 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 Pads[1)]

	FS5-Flowmodul
Order code	160.00001

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

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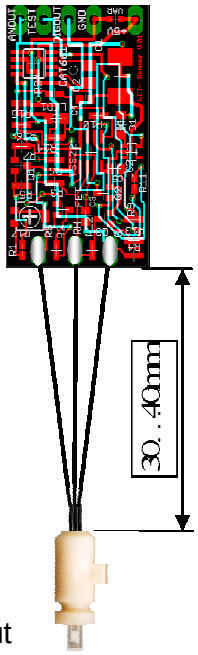
FS5-Flowmodule

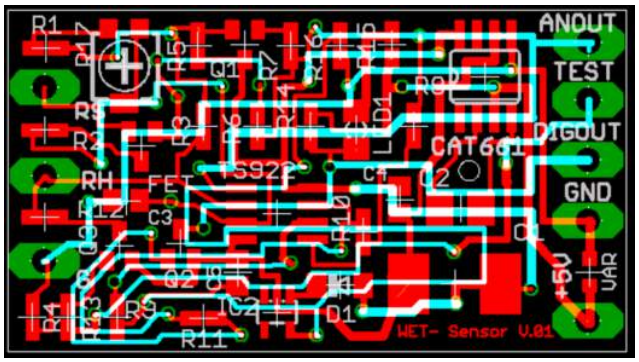
Application notes



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).



RS — Analogue output

RH — Test Input

Digital Output

GND — Ground

Power supply +5 V

INNOVATIVE SENSOR TECHNOLOGY

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