SA-TK01-000 — Exhaust gas temperature sensor (NiCrNi)
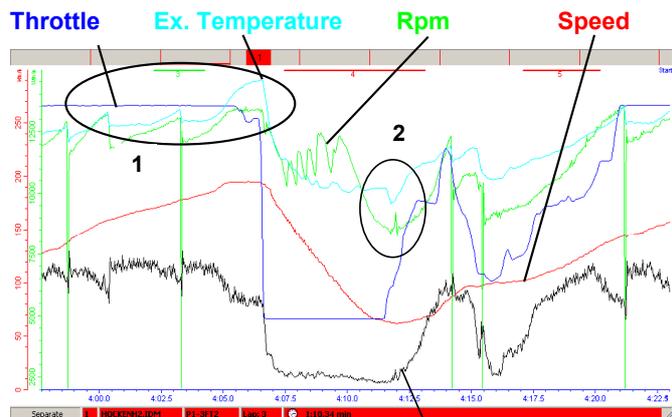
Function

> Temperature sensitive thermocouple measures exhaust gas temperature. Because of the low mass of the Type-K sensor the incoming signal is an exact and fast reacting measurement.

> To measure the temperature you need an amplifier for each temperature sensor

Advice:
> Mount the sensor to the first part of the exhaust system (100mm to 150mm away from piston)

> The sensor is screwed inside until ca. 1mm is looking inside the gas flow.

> More the sensor is screwed inside, the better is the resolution. But the sensor it will be broken earlier.

Notice:
> For more cylinders it is better to use a special temperature Box including 2 or 4 amplifiers.

M5
16 mm

Throttle   **Ex. Temperature**   **Rpm**   **Speed**

1

2

Cylinder press

1 = to rich while gear change
2 = Exhaust temperature down, hard throttle reaction

Technical specifications

Electrical characteristics

Voltage for amplifier.............	12	V
Measurement range.............	0 - 1000	°C
Sensitivity............................	0.25	°C
Absolute accuracy...............	± 1	%

Mechanical characteristics

Weight (incl. cable).................	15	g

Connector

temperature cable:
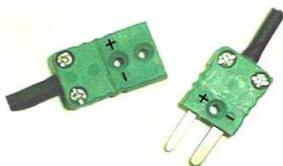
[+]	[-]
red	green
yellow	red
green	white
brown	blue
red	white
yellow	pink

Calibration
Choose the formula below from sensor list
> SA-TK01

Ordering information

Art.No.:

amplifier (1 channel/analog)	IN-ATK01_xxx-000
amplifier (4 channel)...........	BC-TK4iso-000
amplifier (8 channel)...........	BC-TK8iso-000