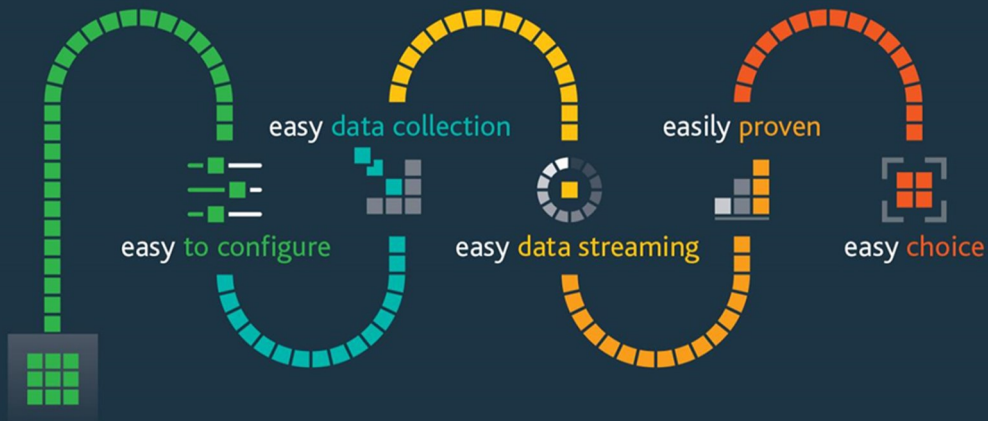




K-Series Instrumentation Solutions

Out the box dataloggers



connect, simply configure and go



Analogue Modules

Influx

K-AN8



P/N: INF2210



Advantages

- Combined Voltage, P.W.M./Digital measurements
- Software switchable voltage input ranges from $\pm 80V$ to $\pm 10V$
- Very high accuracy- Analogue $\pm 0.0015\%$
- High input impedance on Analogue inputs
- WakeOnCAN and power down deep sleep mode

K-AN8 Analogue Modules

Combined Voltages, Current and PWM Signals Accurate analogue and digital sensor measurement data for CAN applications.

A stackable, Easy to uses and cost-effective solution to measuring Analogue and digital/P.W.M. sensors together in one module.

The K-AN8 includes our unique power down and WakeOnCAN feature for quick installation on long term unattended fleet test vehicles.

Accurate sensor measurement data is transmitted periodically on the CAN Bus enabling multiple K-Series modules to be connected together.

The K-AN8 CAN Bus settings, calibration and sampling rates are all configurable and stored even when not powered.

Key Features

- 8 analogue inputs with variable input sampling rates
- (8 channels at 1k Hz, 4 channels at 2kHz, 2 channels at 10k Hz and 5kHz)
- PWM: 3 inputs frequency measurements, counters or pulse measurements
- Outputs: 4 Relay outputs. (Optional)
- Regulated +5V and +24V output power supply for external sensors
- Supplied with configuration software, Influx K-Cal for Windows® and configurable via a DBC file
- Instrumentation data time synchronised with recorded vehicle network data via CAN
- Galvanic isolation between modules (enclosure, power, CAN BUS and analogue input module)
- Analogue channel over-voltage protection +150 Volt
- Stackable ABS enclosure

Technical Data

Technical Data	Description
Power supply	6 to 36V DC.
Interfaces	CAN Bus
PC interfaces	None
Enclosure	Dimension (L115xH46xW105) Weight 450g IP65 ABS
Environmental	-40°C to +85°C Humidity max 90%
Output Voltages	5 V sensor supply max current 75mA (total power < 1.8W)
	24 V sensor supply max current 75mA (total power < 1.8W)
	Analogue Inputs
Number of channels	8 Bipolar differential inputs
Accuracy	±0.0015%
Software switchable Range	±80V, ±40V, ±20V, ±10V
Resolution (ADC)	16Bit
Max Sampling Rate	1KHz (all 8 channels), 5KHz (4Channels), 10KHz (2 Channels)
Input Impedance	> 4MOhm
Min-Max Applied Voltage	±75 V vs Analogue Ground, ±150V between Analogue inputs

Technical Data

	Digital Input / Output
Number of channels	×4 unipolar single-end hardware configured as input or output.
Input switching thresholds	Low < 1.5V
	High > 2.0V (up to 12V)
Input leakage current	< 10nA
Output states	(Optional) Open collector & 510Ohm
Output drive capability	45V max
Collector current (DC)	10mA max
Saturation voltage (OK on)	< 0.15V
Equivalent on-resistance	< 510Ohm
Leakage current at OK off	< 5uA
Min-Max applied voltage	Digital input -8V to +12V; Digital output 0V to +40V power supply, which limits the current to 10mA
PWM	3 digital inputs frequency measurements up to 100KHz or pulse measurements. (min 100 Nano seconds, min time between pulses 10 microseconds)

Influx

K-AN8



1x Influx Technology K-AN8



1x Influx Technology K-Bob



1x Kvaser™ Leaf Light



1x Kvaser™ T-Connector



1 x 9 Way-9 Way Cable



1x 25-Way D-Sub terminal



1x 120 Ohm CAN Bus termination D-Sub



1x Influx carry case

P/N: INF2211

K-AN8 Kit

This K-AN8 (8 analogue + 4 digital input) kit contains everything needed to get the K-AN8 setup and tested on a work bench. To help with connecting sensors to the analogue and digital ports. The K-BoB enables easy connection with BNC connectors. Influx K-Cal is easily connected via the Kvaser Leaflight interface and Kvaser T-CANnector. (Using the Kvaser T-CANnector to power up the K-AN8 (at the desk) and terminate the CAN bus).

This kit is supplied in the Influx carry case and is highly Recommended for new K-AN8 user- very easy to setup and test on a workbench, for example, when calibrating.

Our K-AN8 Kit is a cost-effective solution to measure multiple sensor types within one module. Extremely easy to use and ideal for applications that will measure inputs such as pressures, voltages, currents (using a current clamp), PWM, currents, RPM, digital counters or IEPE sensors. Multiple K-Series modules can be stacked, connected and configured to work together. All K-Series instrumentation modules allow the measurement of signals and the periodic transmission of sensor measurement data on a CAN 2.0 network.

Typical Applications

- Vehicle testing with additional instrumentation requiring a wide range of sensors, for example, voltage, pressure, fuel flow, RPM, event counters, acceleration, etc
- Competitor bench testing (reverse engineering). Instrumentation combined with vehicle CAN data (collected via our Rebel/ReXgen data loggers)
- Vehicle engineering component testing, (using K-series add on modules for IEPE and PT100/PT1000 sensors)



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K-Series Instrumentation Solutions

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