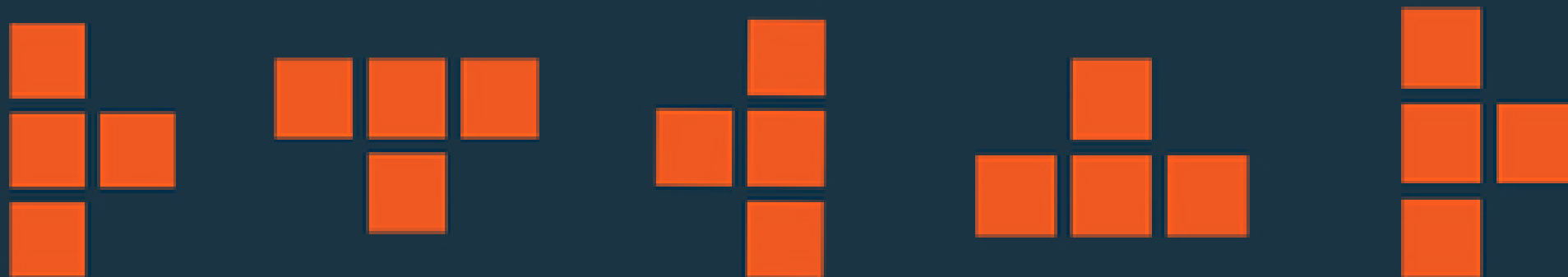


Influx
TECHNOLOGY



K-Series Instrumentation Solutions

Out the box dataloggers



connect, simply configure and go

Influx

K-Box



Multi DAQ Modules



P/N: INF2201



Advantages

- Combined Voltage, Thermocouple and P.W.M./Digital measurements.
- Software switchable voltage input ranges from $\pm 80V$ to $\pm 10V$.
- Very high accuracy-Analog $\pm 0.0015\%$, Thermocouples ± 1 Degree C
- Cold junction compensation for accurate thermocouple measurement.
- High input impedance on Analog inputs.
- WakeOnCAN and power down deep sleep mode.

K-Box Multi-DAQ Modules

Measuring Thermocouples, Voltages, Currents and P.W.M
The K-Box is simply the most cost effective and flexible method available to measure multiple sensor types. This avoids higher costs, complexity, cables and space. Stackable with all of our K-series instrumentation modules, the K-Box includes our unique power down and WakeOnCAN feature, enabling 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 and data recorded via our CAN data loggers.

Key Features

- Up to 8 thermocouple connections at up to 10 Hz sampling rate.
- 8 Analog inputs with variable input sampling rates. (8 channels at 1k Hz, 2 channels at 10k Hz).
- 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 Analog input module and thermocouple input module).
- Measurement accuracy: ± 1 degree C, Measurement resolution: .001-degree C.
- Analog channel over-voltage protection ± 150 Volt.



Stackable instrumentation – acquires sensor data for CAN applications

P/N INF2201

Technical Data

| | Thermocouple Inputs |
|-------------------------------|---|
| Number of channels | 8 J/K/T-type inputs |
| Accuracy | ±1°C accuracy |
| Measurement Range | Measurement: -200 °C to 1250 °C |
| Max Sampling Rate | 10 Hz (all 8 channels) |
| Maximum input voltage | ±3.3 V |
| | Digital Input / Output |
| Number of channels | x4 unipolar single-ended hardware configured as inputs or outputs |
| Input switching thresholds | Low < 1.5V |
| | High > 2.0V (up to 12V) |
| Input leakage current | < 10nA |
| Output states | (Optional) Open collector - 510 Ohm |
| Output drive capability (OK): | |
| Collector-emitter voltage | 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 input frequency measurements up to 100kHz or pulse measurements. (min 100 Nano sec) (between pulses 10 microseconds) |



Stackable instrumentation – acquires sensor data for CAN applications

P/N INF2201

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 | 5V and 24V (Max current drawn 80 mA combined) |
| | Analog Inputs |
| Number of channels | 8 Bipolar differential inputs |
| Accuracy | ±0.0015% |
| Software switchable range | ±80V, ±40V, ±20V, ±10V |
| Resolution (ADC) | 16 Bit |
| Max Sampling Rate | 1 KHz (all 8 channels), 2 KHz (4Channels), 10 KHz (2 Channels) |
| Input impedance | > 4 M Ohm |
| Max input voltage | ±75 Analog Ground, ±50 V Analog inputs |

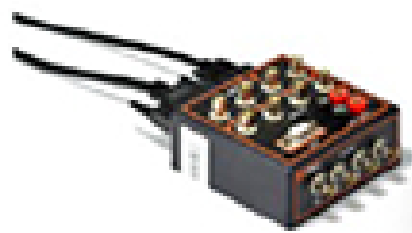


Influx

K-BOX



1x Influx Technology K-Box



1x Influx Technology K-Bob



1x Kvaser™ Leaf Light



1x Kvaser™ T-Connector



1x 9 Way-9 Way Cable



1x 25-Way D-Sub terminal

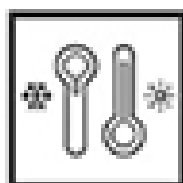
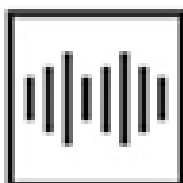
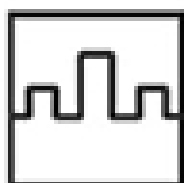
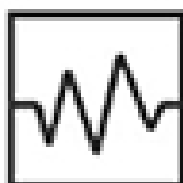


1x 120 Ohm CAN Bus termination D-Sub



1x Influx carry case

P/N: INF2202



K-Box Kit

This K-Box Kit contains everything needed to get the K-Box set up and tested on a workbench. 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-connector. (Using the Kvaser T-connector to power up the K-Box (at the desk) and terminate the CAN bus).

This kit is supplied in the Influx carry case.

Highly Recommended for new K-Box users very easy to set up and test on a workbench. For example, when calibrating.

Our versatile multi-DAQ K-Box Kit is a cost-effective solution to measure multiple sensor types within one module. Extremely easy to use and ideal for applications that measure inputs such as temperatures, 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

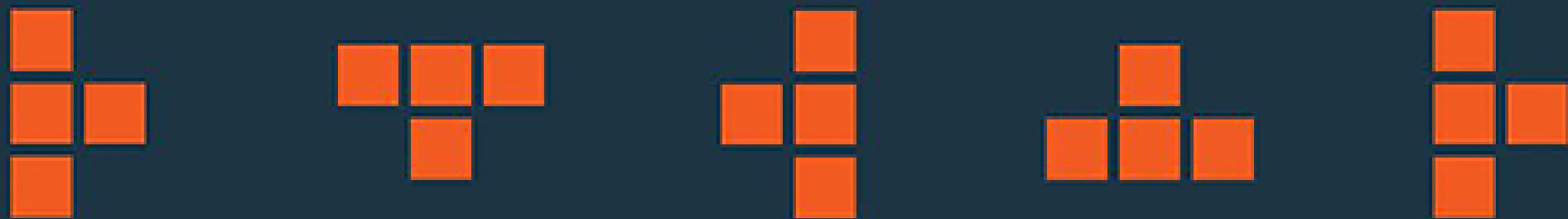
- Vehicle testing with additional instrumentation requiring a wide range of sensors. (For example, voltage, pressure, fuel flow, RPM, event counters, acceleration, temperature etc.).
- Competitor bench testing (reverse engineering). Instrumentation combined with vehicle CAN data. (Collected via our Rebel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

Influx Technology Ltd



sales@influxtechnology.com

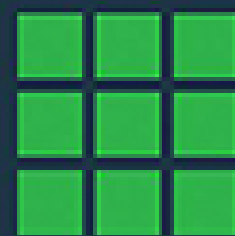
www.influxtechnology.com



K-Series Instrumentation Solution

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