

Influx

K-VOLT



Sensor Signal Generator



P/N: INF2210



•CAN Input



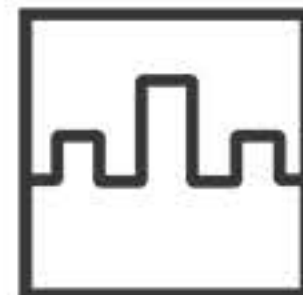
•Voltages



•Currents



•Frequency /PWM



•Digital signals

Stackable and configurable signal generator for CAN applications. (CAN to sensor signal converter)

The K-Volt can be used to generate fast configurable analogue signals from CAN Bus messages.

Designed for high speed and accurate simulation of sensors (For example HIL and Replay systems).

The K-Volt can be connected directly to a PC via a USB connection. The output calibration and set-up of the K-Volt is easily configurable via the Influx K-Cal software,

K-VOLT -Sensor Signal Generator

Key features

- Software configurable output operating modes: Voltage, Current, Frequency, PWM and digital.
- Configuration, programming and output control via CAN or USB interface.
- PWM signal can be configured to simulate engine crank and CAM patterns.
- Supplied with configuration software Influx K-Cal for Windows®
- Device drivers for user defined Windows® USB applications. (32/64-bit)
- Suitable for use in the automotive field.
- Powered by USB to enable configuration and programming.
- 8x LEDs indicate the functions of the corresponding outputs.
- LEDs indicate the connectivity of the device and the operating mode.
- Ability to exclude the power on unused outputs thus reducing power consumption.
- Galvanic isolation. (Outputs, USB, supply and CAN Bus).
- WakeOnCAN enables K-Volt to power up and power down in deep sleep mode.
- Stackable ABS enclosure.

a freely distributable Windows PC application.

The K-Volt can be integrated into your Windows applications via the SDK K_VoltLIB, providing everything you need to develop your own applications. (Under developing.)

Ideal for use with the Influx Replay® system.

The K-Volt is part of Influx Technology's stackable instrumentation K range which is compatible with Influx Rebel data loggers.

Function	Description
Power supply	4.5V to 36V DC
	Maximum power consumption 6W (during normal operation of the device)
	Reverse polarity protection
Power consumption	Normal operation approx. 500mA at 12V
	Power down standby mode approx. 3mA at 12V
LED Indicators	x8 LED indicating the functionality of the corresponding output.
Configuration	via CAN bus and USB with KvoltCal
	output control settings and configurations stored in the device
Interfaces	CAN bus (max 1000 kbps)
Wake Up	WakeOnCAN
PC interfaces	USB2.0 Type B (Isolated)
Enclosure	Dimension (L115xH46xW105) unit: mm
	Weight 450g
	IP65
	ABS
Environmental	-40degC to +85degC
	Humidity max 90%
Connection type	BNC
Refresh rate	1 kHz

Function	Description
Isolated outputs	x8 galvanically isolated outputs, software configurable
	Max output current: Voltage source up to 10mA; Current source up to 24mA
	Maximum Reverse Leakage IR: 1 μ A @ \pm 12V
	Breakdown Voltage VBR: \pm 13.3V @ 1mA
	Maximum Clamping Voltage VC: \pm 19V @ 1A
	Bidirectional Peak Pulse Power (tp = 8/20 μ s) 400W
Software Configurable Outputs	
Number of channels	x8 galvanically isolated outputs, software configurable
Voltage output	Output Range: 0V to 5V; 0V to 10V; \pm 5V; \pm 10V
	DC output Impedance <15Ohms
	Load resistance: > 1kOhms.
	Resolution 16bits
Current output	Voltage source up to 10 mA; current source up to 2mA
	Load resistance: < 300 Ohms, Inductive load: < 50mH
	Resolution 16bits
Digital output	Voltage at a high level: software configured identically to Voltage output
	Output current at a high level: < 10mA
	Voltage at a low level: < 0.8V
	Output current at a low level: < 20mA
	Duration of fronts: < 100 microseconds.
	Output States: Open Drain-Frequency, PWM/Duty Cycle and Custom

Influx Technology Ltd



sales@influxtechnology.com

www.influxtechnology.com



K-Series Instrumentation Solution

Price and specification are correct at date of publication but subject to availability or change without notice. Photos for illustrative purposes only - actual items may differ from photo. Influx Technology Ltd cannot be responsible for errors in typography or photography.

All copyrights reserved @2021



Influx
TECHNOLOGY