

# Influx

K-BOX

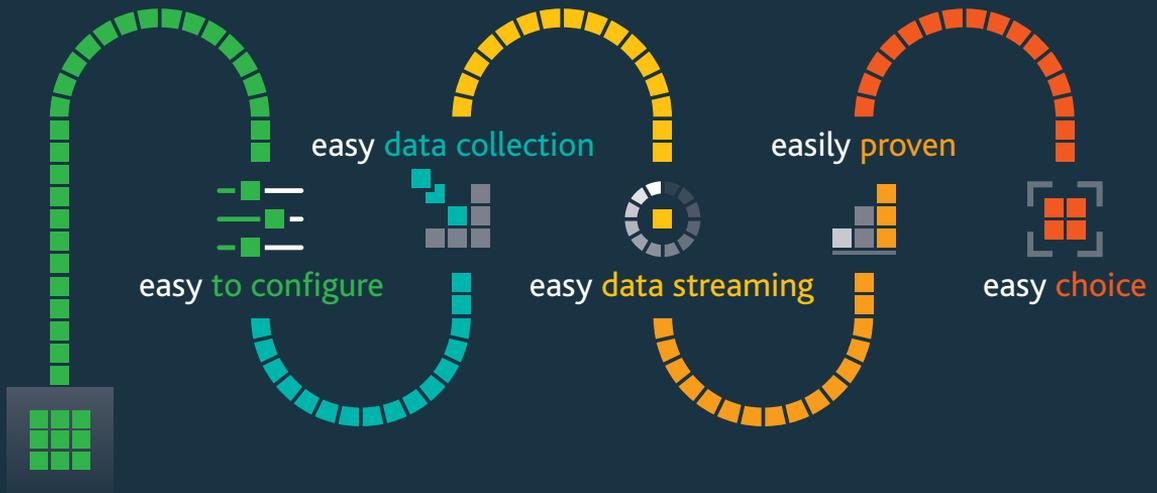


# Influx

REBEL DASH



# Out the box dataloggers



connect, simply configure and go

# Influx

REBEL DASH



The Rebel Dash is part of the new generation of compact, highly flexible, rugged CAN bus displays from Influx Technology's range of products.

The Rebel Dash is designed to be integrated with all the Rebel range of data loggers, and the K-Box

instrumentation but can also be used as a standalone CAN display. The Rebel Dash is configurable from DiaLog, and with the straightforward mounting system, or the optional windscreen mounting system, you can be monitoring vehicle data graphically within minutes.



The Rebel Dash exemplifies a product that is both easy to install and easy to use – it has a separate Rebel multi-connect cable that simplifies the connection between the data logger and the display, and is automatically switched on or off by the data logger when in sleep mode so no user intervention is required.

The Rebel Dash display is a high brightness QVGA (320x240pixels) colour display that is viewable in full sunlight on a 3.5inch colour display with integrated input and output features. Electrically and environmentally rugged, the new Rebel Dash display is ready to meet the challenge of providing tough, flexible and maintenance - free instrumentation in the harshest of environments.

**Display features:**

- A list of the parameters
- Dials and digital LEDs
- A graphing mode
- A CAN trace viewer mode

# Technical Data

Electrical	
Display	a-Si TFT LCD 3.5"
Resolution	320 (H) x 240 (V) QVGA
Viewing Angle	130/110 degrees from 6 O'clock
Number Of Colours	64K
Power Requirements	10V to 32V DC
Sounder	Internal Buzzer
Communications	RS232, CAN Bus 2.0B , USB2.0
Environmental	
Operating temperature	-40 to +70 Degrees Celsius
Degree of Protection	IP 66 (front) , IP67 (rear)
Mechanical	
Case material	ABS
Dimensions	95mm (W) x 95mm (H) x 23mm forward and 23mm rear (D)

# Influx

K-BOX



The K-Box is Influx's new stackable instrumentation which is compatible with the Rebel range of data loggers but will also integrate with other logger systems or output to the Rebel Dash display.

The K-Box is an ideal solution for applications that require a large number of thermocouple and analog inputs.

The K-Box's accurate sensor data is transmitted periodically on the CAN bus which enables multiple devices to be connected.

The K-Box CAN bus settings, calibration and sampling rates are all easily configurable, and these settings are stored within the K-Box even when the device is not powered.



### Advantages:

- Wide switchable software voltage input ranges +/-80V,+/-40V,+/-20V or +/-10V
- Accuracy Analog  $\pm 0.0015\%$ , Thermocouples  $\pm 0.08\%$ .
- High input impedance

### Key features:

- Stackable ABS enclosure
- Simple signal configuration using a DBC file
- Each unit enables up to 8 K-type connections at 20Hz sampling rate and 8 Analog inputs at 1kHz sampling rate
- Pulse Width Measurement: 3 inputs frequency measurements or pulse measurements.
- Outputs: 4 Relay outputs.(option)
- Regulated +5V and +12V output power supply for external sensors
- Instrumentation data time synchronised with the recorded vehicle network data
- K-Box power up and power down is controlled by wake up from CAN
- Analog inputs and thermocouple inputs are galvanically isolated

# Technical Data

Technical Data	Description
Power supply	4 to 36V DC
Interfaces	CAN Bus
PC interfaces	None
Enclosure	Dimension (L115xH46xW105) Weight 450g IP65 ABS
Environmental	-40degC to +85degC Humidity max 90%
Output Voltages	5 V sensor supply max current 75mAmp (total power < 1.8W)
	24 V sensor supply max current 75mAmp (total power < 1.8W)

## 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)
Input Impedance	> 4 MOhm
Input Protection	+/-40 V

# Technical Data

## Thermocouple Inputs

Number of channels	8 K-type inputs
Accuracy	+/- 0.25 degC accuracy
Measurement Range	-200degC to 1400degC
Max Sampling Rate	20 Hz (all 8 channels)
Input Protection	+/- 3.3V

## Digital Input/Output

Number of channels	(4) unipolar single-ended inputs/outputs
Input Switching Thresholds	Low < 1.5V
	Hight > 2.0V (up to 12V)
Input leakage current	< 10nA
Output States	(option) 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	-12 to 45V
PWM	3 digital inputs frequency measurements up to 25MHz or pulse measurements. (min 100 nano seconds, min time between pulses 10 microseconds)

Distributor:

**SMARTO**

25 Quai Gallieni

92150 Suresnes

Tél. 0158470343



**Influx**  
TECHNOLOGY

The Annexe ■ 81 Horslow Street ■ Potton ■ Bedfordshire ■ SG19 2NX ■ UK

T: +44(0)1767 262922 ■ [sales@influxtechnology.com](mailto:sales@influxtechnology.com) ■ [influxtechnology.com](http://influxtechnology.com)

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