



**REDRAVEN™**

# DATA USB TREND DATA MEMORY FOR DETECT SENSOR

The Data USB trend data memory is a user-friendly way to store and analyze the vibration data acquired via the Detect sensor. Data USB can be used as a stand-alone device or integrated into a DCS system. Technicians can log condition data to a USB flash drive for three years for long-term storage. Using Vibrosoft software, technicians can analyze condition data to evaluate the current condition of the equipment and determine if further action is required at an early stage.

## **Vibration data in correlation to the production process**

Real-time online trend data analysis (date, time) is available to reduce lifecycle cost, increase plant availability, and optimize process efficiency.

## **Long-term data memory**

With the flash drive, technicians can log and store condition data continually for 1,000 days.



## **Direct USB communication**

Using a standard USB interface, a PC or laptop can be connected directly to the Data USB logger. Technicians can use Vibrosoft software to configure the Detect sensor and conduct data analysis.

## **Quickly assess trend data**

Using a USB flash drive, it's easy to save condition data for use on other systems. The data can be easily analyzed using the Vibrosoft data viewer.

## **Modbus TCP**

Interface for direct data transfer, e.g., PI server

## **Simple power supply**

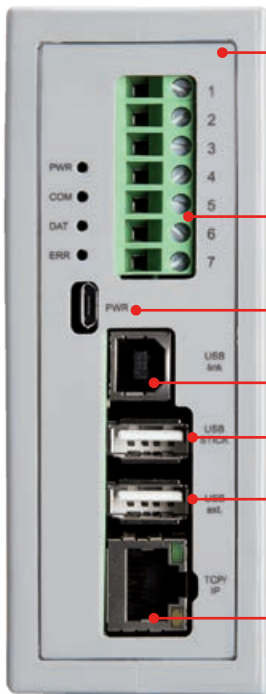
As an alternative to the industrial 24 VDC power supply, the Data USB can be powered by the USB interface (USB-Micro, USB-B), and all standard USB power supply units can be used. The Data USB powers the Detect sensor directly.



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# Data USB Trend Data Memory for Detect Sensor

## Connections




Terminal block for connection of the **Detect** sensor and 24 Volt (18 to 30 VDC) power supply

Control LEDs

USB-Micro for optional power supply

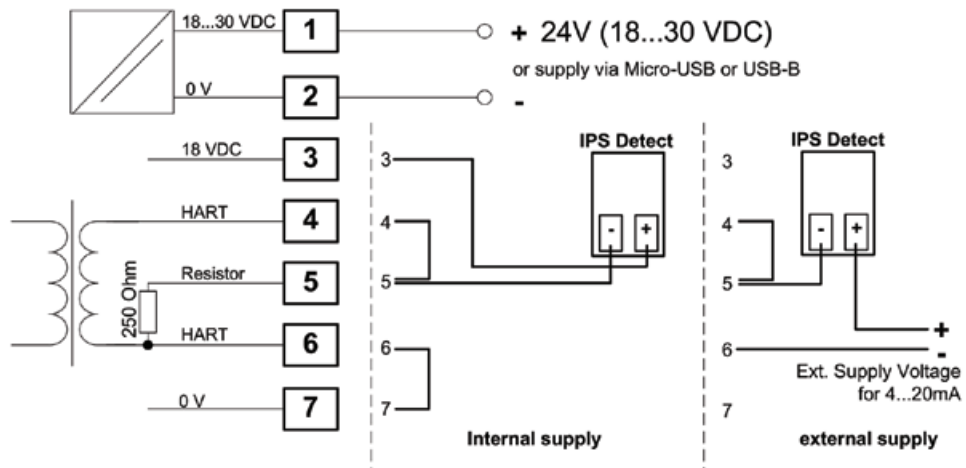
USB-B communication port for **Vibrosoft** software and optional power supply

USB-A flash drive 

Additional USB-A port

Modbus TCP

## Terminal block connections





# REDRAVEN™ Data USB Trend Data Memory for Detect Sensor

## Technical Data

Power supply	
Input voltage	VDC (18 to 30 VDC); 500 mA*; terminal 1+ / 2- Power supply for electronic devices class A (industrial operation)
Alternative input voltage 1	USB-Micro power supply unit 5 VDC / 500 mA **
Alternative input voltage 2	USB-B for PC communication 5 VDC / 500 mA **
Detect supply output	18 VDC ±5% / 20 mA short-circuit-proof; terminal 4+ / 7-
Internal resistance	250 Ohm; terminal 4 / 6
Ambient conditions	
Storage temperature	T <sub>a</sub> = -25°C to 60°C (-13°F to 140°F)
Ambient temperature	T <sub>a</sub> = -20°C to 60°C (-4°F to 140°F)
Lifetime	>50,000 h
Protection degree	IP20
Relative air humidity	5 to 95% no condensation
EMC requirements	IEC 61326
Mechanical specifications	
Housing	Plastics polycarbonate gray
Dimensions	118 x 45 x 138 mm
Weight	200 g
Mounting	32 mm mounting rail EN 60715
Trend data memory	
Storage type	Ring buffer to 1,000 days
USB stick	max. 4 GB (FAT32), included in scope of supply
Number of files	0 to 99 (factory setting: 99)
File size	100 to 7,500 kB (+100) (factory setting: 4,500 kB)
Log interval	Min. 30 seconds (+30 sec. incremental steps) (factory setting: 30 sec.)
Measurement	~ 0.26 kB per measurement
Data format	TXT in CVS format, e.g., Excel or Vibrosoft DataView
Configuration	Vibrosoft
Real-time clock	
Configuration	Vibrosoft
Operation real-time clock without power supply	>5 days

\* By use of the provided USB sticks. Other USB sticks can have a higher power consumption.

\*\* The provided USB stick or a USB stick with a power consumption <200 mA has to be used.

Further, it is recommended to use only cable lengths <1.5 m.