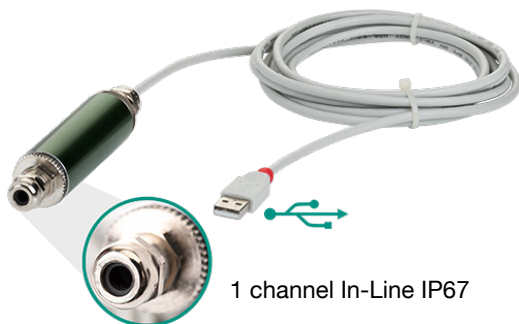


USB Sensor Interface

For strain gauge, potentiometric, DC/DC and Pt100 sensors

Model 9206

Code:	9206 EN
Delivery:	ex stock/1 week
Warranty:	24 months



USB multi sensor interface in housing

Application

In the field there is a frequent need to measure sensor readings rapidly and easily right at the sensor and to transfer them directly to a PC without additional amplifiers or converters. The 9206 USB sensor interface can satisfy this requirement admirably, thanks to its „plug & measure“ design. The USB connection means installation could not be simpler.

Typical applications:

- ▶ Mobile test measurements via laptop
- ▶ Laboratory test set-ups
- ▶ Instrumentation and control
- ▶ Diagnostic measurements in the chemical industry
- ▶ PC-based recording of expansion figures in bio engineering

- Inexpensive "Plug & Measure" design
- Simple connection via PC USB port
- Measurement accuracy < 0.05 % F.S., optional 0.01 % F.S. incl. DAkkS
- 24 bit resolution
- 6 wire technology for the highest precision
- High-speed measurement of up to 1200 readings/sec.
- Convenient configuration and analysis software DigiVision for max. 32 measurement channels
- Pt100 as option
- LabVIEW, DASyLab and DLL drivers free of charge

Description

“Plug & Measure” is the concept of the USB sensor interface 9206. Whether as a 1 channel In-Line version or as a multi-channel solution in a desktop housing, the 9206 provides high-performance and cost-effective measured value acquisition for analog sensors such as full-bridge strain gages and potentiometric sensors, DC/DC transmitter and Pt100 sensor.

With the DigiVision measurement software included in the scope of delivery, the USB sensor interface can be flexibly parameterized for your measurement task. The software offers extensive functions for recording, displaying and logging measurement data.

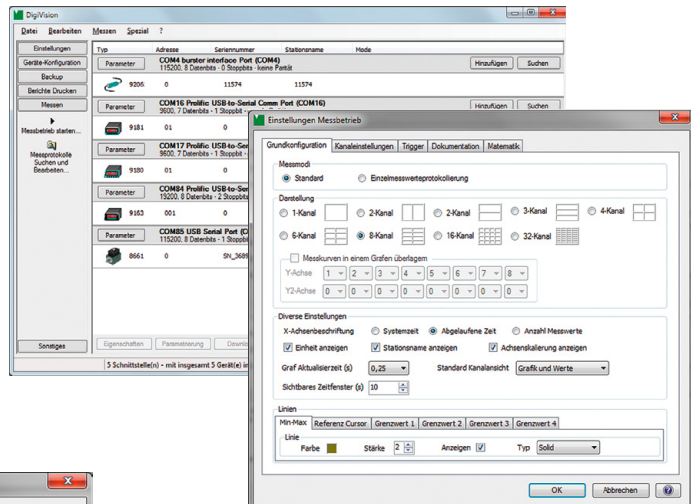
With the LabVIEW and DLL driver packages available free of charge, the USB sensor interface can be flexibly integrated into your own programs. Whether in the laboratory as a table-top device or in a harsh environment as a 1 channel In-Line IP67 version, the USB sensor interface can be used in many ways. The 9206 in a desktop case with an increased measuring accuracy of 0.01 % F.S. is suitable for precision applications with DAkkS certificate.

DigiVision Configuration and Analysis Software

General Software Data

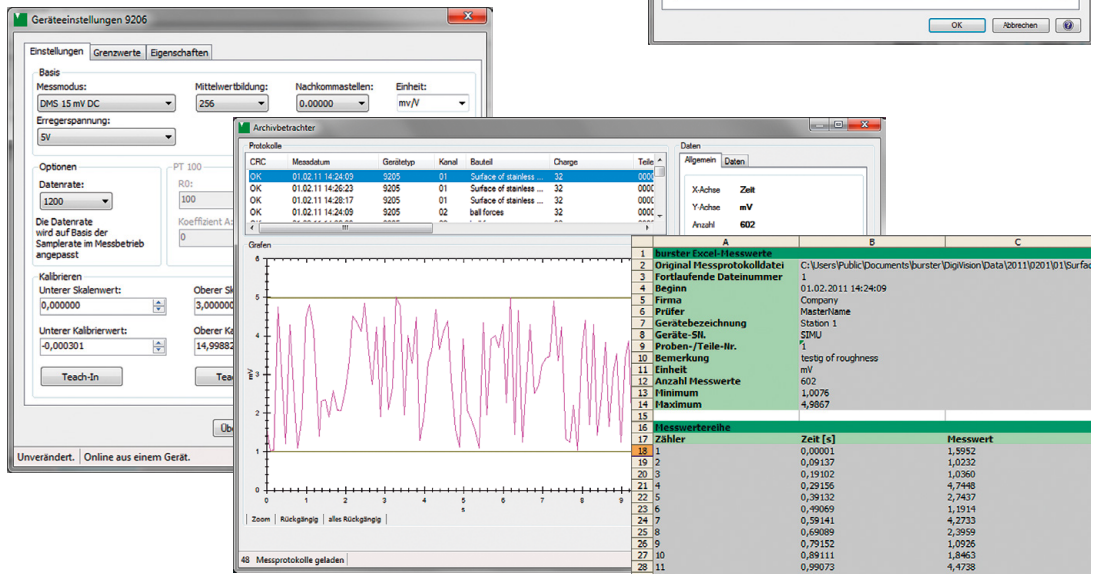
- ▶ Convenient device finder
- ▶ Instrument parameterization
- ▶ Instrument data adopted automatically, e.g. scaling, limit settings
- ▶ Back-up function for instrument data
- ▶ Simultaneous display of up to 16 measurement channels
- ▶ Different measurement rates can be combined
- ▶ Different triggers can be set: global or channel-specific
- ▶ Creation of instrument groups
- ▶ Report finder for locating group reports and individual reports
- ▶ Documenting individual measurement curves with various options e.g. serial number, batch counter, day counter

- ▶ Functions like tare and reset min/max values switchable in measuring mode
- ▶ Export function to Excel
- ▶ Communication with a controller unit (PLC etc.) via RS232 or Ethernet



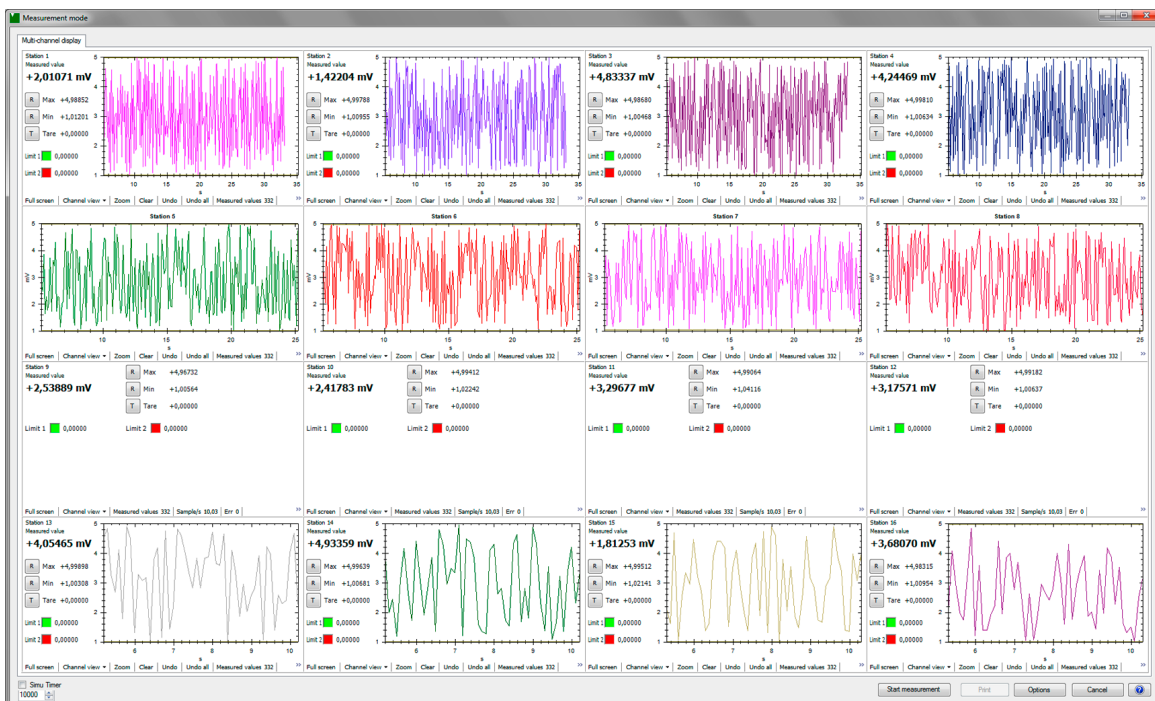
Software DigiVision P001

- ▶ 1 interface with up to 200 measurements/s



Software DigiVision P100

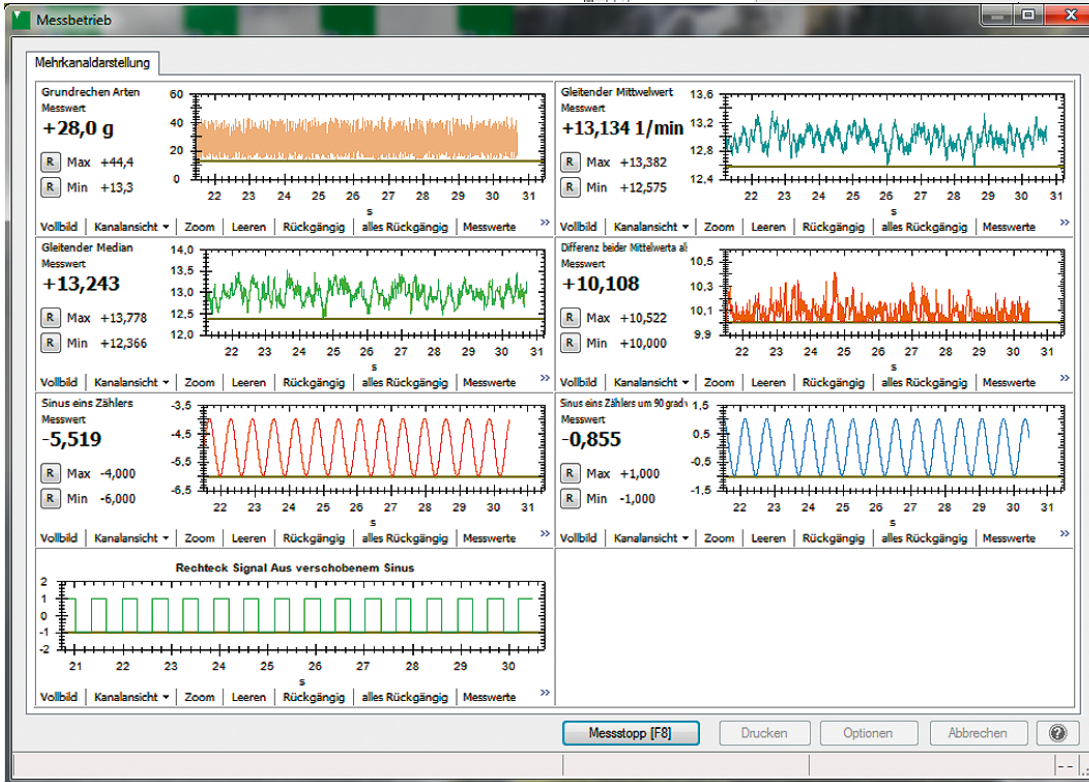
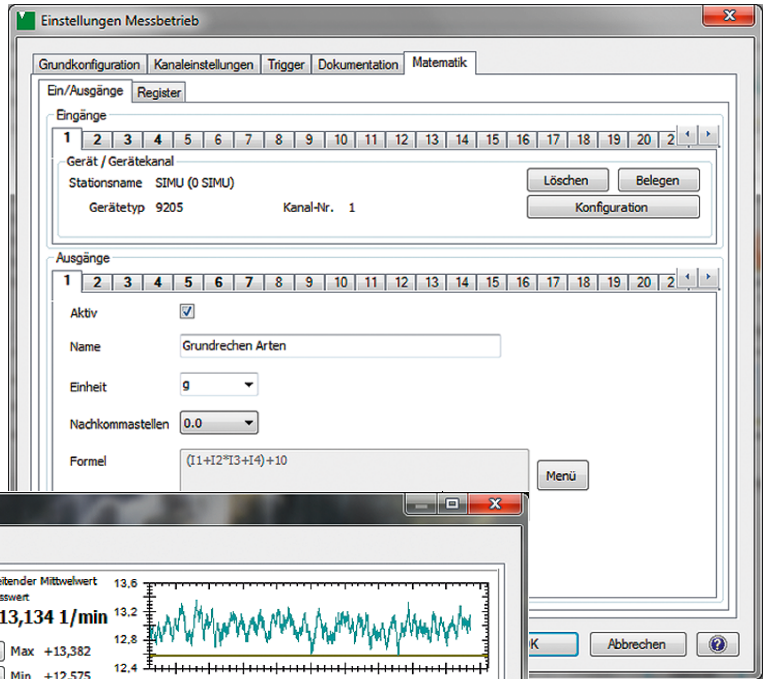
- ▶ max. 16 channels with up to 1200 measurements/s



9206 EN

Software DigiVision 9206-P200

- ▶ Intuitive operation
- ▶ Easy-going configuration the interfaces
- ▶ Measurement rate up to 1200 meas./sec. for every channel
- ▶ Up to 32 measurements at the same time
- ▶ Storage of measurement protocols
- ▶ Data export in Excel
- ▶ Free mathematical measuring channels



Filterfunktionen

Eingänge	IEEERemainder(x,y)	Gibt den Rest der Division zweier angegebener Zahlen zurück (x/y).
Ausgänge	Max(x1x2)	Gibt die größere von zwei Gleitkommazahlen x1 und x2 mit doppelter Genauigkeit zurück.
Register	Min(x1x2)	Gibt die kleinere von zwei Gleitkommazahlen x1 und x2 mit doppelter Genauigkeit zurück.
Zähler	Pow(x,y)	Potenziiert eine angegebene Zahl x mit dem angegebenen Exponenten y.
	Round(x,y)	Rundet einen Gleitkommawert x mit doppelter Genauigkeit auf eine angegebene Anzahl von Bruchziffern y.

Beispiel

Beschreibung

Beispiel

Formel

$(I1+I2*I3+I4)+10$

Validierung

Ok

OK Abbrechen

Typical Applications

- ▶ Differential measurements
- ▶ Averaging of the measurement results
- ▶ Determination of efficiency in engine test
- ▶ Determine mass moment of inertia
- ▶ Determine the frictional force
- ▶ Comparison of different measurement readings