e.wave

Measurement and Testing System for Desk Top Application

e.wave Measurement and Testing System

e.console

DIAdem™

LabVIEW™

PLab

e.commander

- 4 to 8 input channels for universal bridge, general purpose analogue signals, digital signals
- up to 8 output channel for voltage, digital signals
- to be used as data acquisition, measuring and testing without host or PC
- available with PAC function
- Data exchange over Ethernet , RS 485 Field bus
- PLUG & PLAY function with **DIAdem™** , **PLab**, **e.commander**, **e.console**
- Data acquisition Rate 10 …. 10.000 samples/ seconds

Gantner instruments

e.wave Measurement and Testing System

- Extendable by additional **e.wave** boxes via (Lo-Out, Lo-In) to 32 Channel for bridge, general purpose input channels
- Sensors connection by 15- pin SUB D (In-1 to In-8); analog out / digital I/O by 9- pin SUB D (In/Out-1 to In/Out-8)
- Size of box (W x H x D ; mm) 330 x 120 x 270; supply Voltage 24 V DC; EMV resistant metallic housing

Available **e.wave** versions:

e.wave 8 channel carrier frequency, sample rate up to 100 cycles/second
e.wave 8 universal channel, sample rate up to 100 cycles/second

e.wave 6 channel carrier frequency, sample rate up to 1000 cycles/second, PAC integrated
e.wave 8 universal channel, sample rate up to 1000 cycles/second, PAC integrated

e.wave 4 channels carrier frequency and 4 universal channels; sample rate up to 10000 cycles/ second; PAC integrated

Other versions on request.

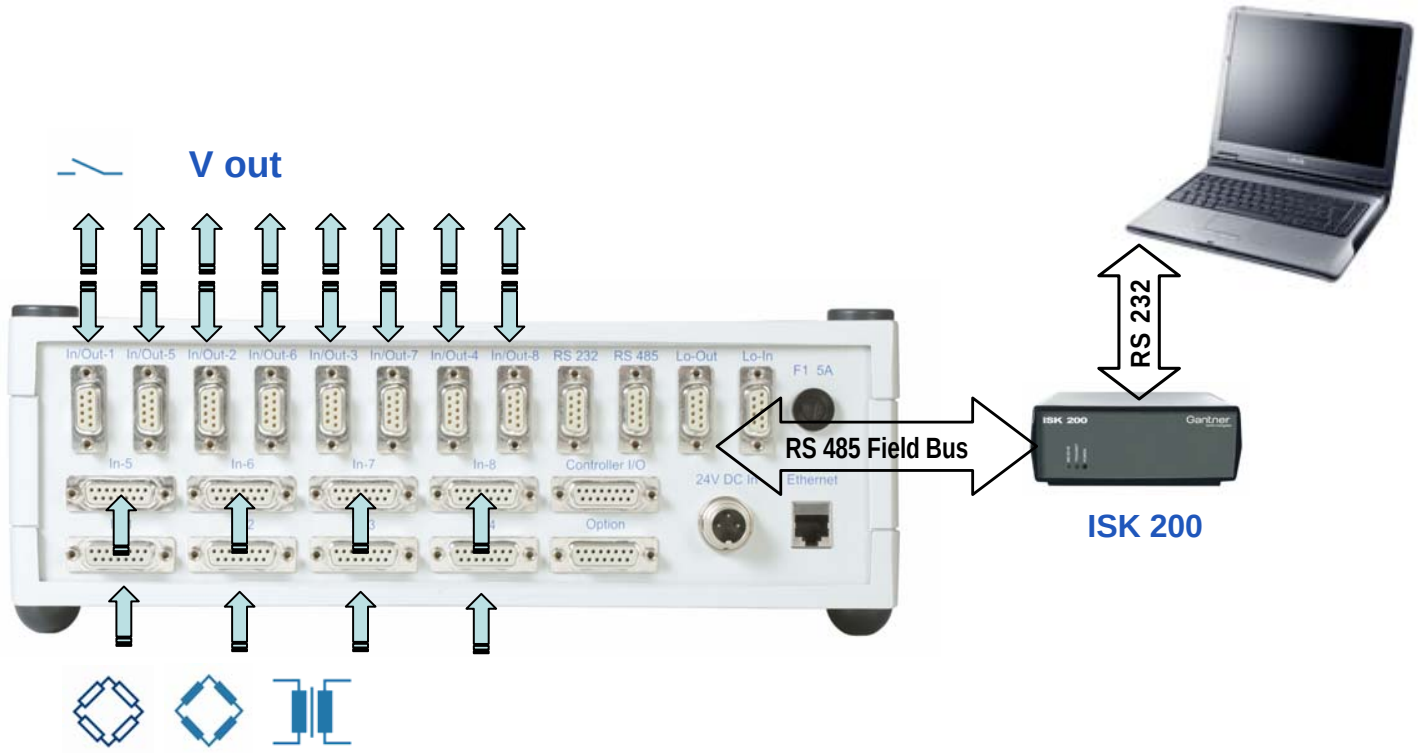
e.wave 8 channel carrier frequency, sample rate up to 100 /s

8 x 1Strain gauge full - and half bridges, inductive bridges, LVDT (In-1,…,In-8)
8 x 1digital output, 8 x 1digital input (In/Out-1,…,In/Out-8)
8 x 1 voltage output (In/Out-1,…, In/Out-8) ; for detailed technical information refer to **e.bloxx A6-1CF**

The measured signals are available as voltage (+/- 10 V) or data stream via RS 485 (ASCII, Modbus RTU)

The refreshing rate of voltage output will be up to 500 values / second.

The data transmission rate via RS 485 will ~ 10 < 100 values / second, depending on no. of channels



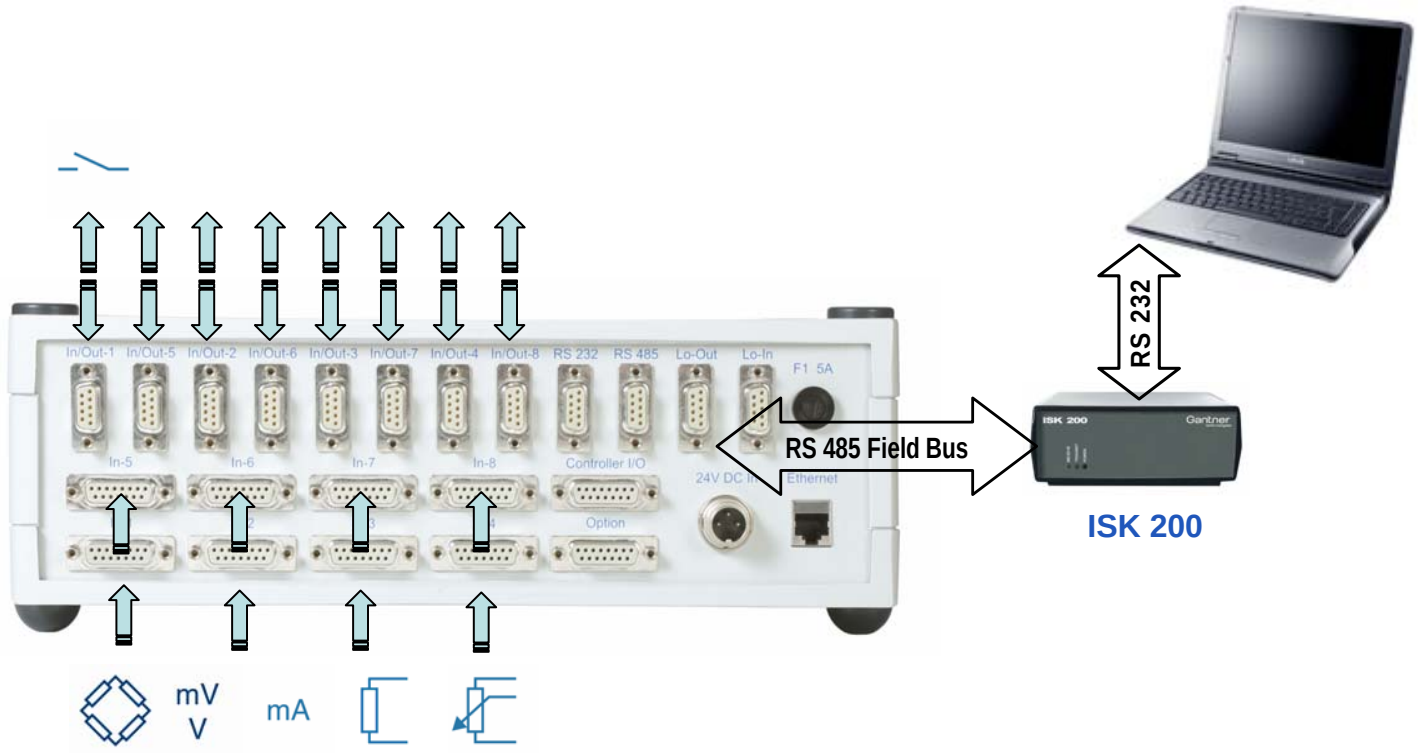
e.wave 8 multifunctional channel, sample rate up to 100 /s

8 x 1Strain Gauge bridge, Voltage, Current, Pt 100/1000, Resistance (In-1,…,In-8)

8 x 1digital output, 8 x 1digital input (In/Out-1,…,In/Out-8); for detailed technical information refer to **e.bloxx A1-1**

The measured signals are available as data stream via RS 485 (ASCII, Modbus RTU)

The data transmission rate will ~ 10 ..< 100 values/ second, depending on No. of channels



e.wave 6 channel carrier frequency, sample rate up to 1000 /s, PAC integrated

6 x 1 Strain gauge full - and half bridges, inductive bridges, LVDT (In-1, …, In-6),

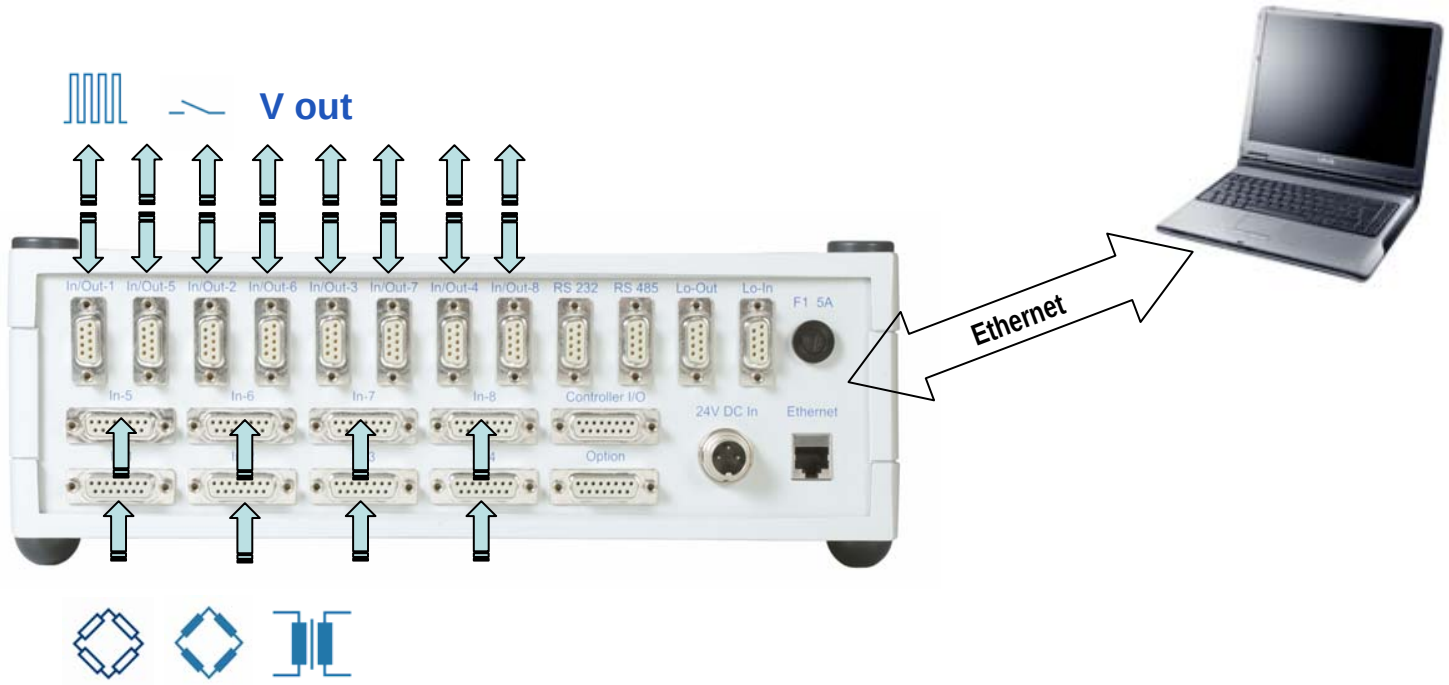
8 x 2 digital output, 8 x 2 digital input (In/Out-1,…,In/Out-6)

8 x 2 voltage output (In/Out-1,…, In/Out-6); for detailed technical information refer to **e.bloxx A6-2CF** or e.pac DL

Data exchange with **DIAdem™, PLab** by PLUG & PLAY. The use of **LabVIEW™** requires a vi file

Data logging and conversion of data format with **Green Eye-Reader**

The data transmission will ~ 20 < 50 frames / second. Data acquisition rate is max. 1 ms.



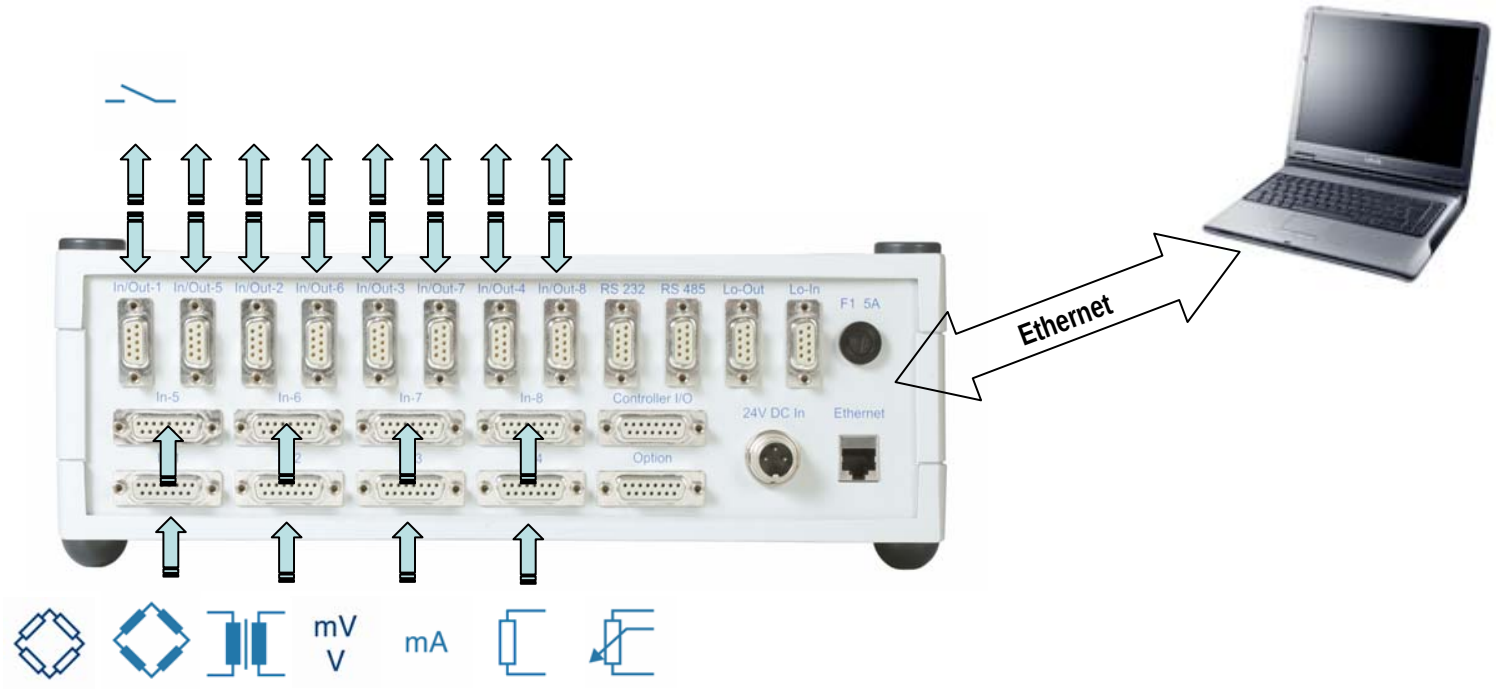
e.wave 8 universal channel, sample rate up to 1000 /s, PAC integrated

8 x 1 Strain gauge full bridge, Voltage, Current, Pt 100/1000, Resistance (In-1,…,In-8),
8 x 1digital output, 8 x 1digital input (In/Out-1,…,In/Out-8); for detailed technical information refer to **e.bloxx A1-1**

Data exchange with **DIAdem™, PLab** by PLUG & PLAY . The use of **LabVIEW™** requires a vi file

Data logging and conversion of data format with **Green Eye-Reader**

Data transmission will ~ 20 < 50 frames/second. Data acquisition rate is max. 1 ms



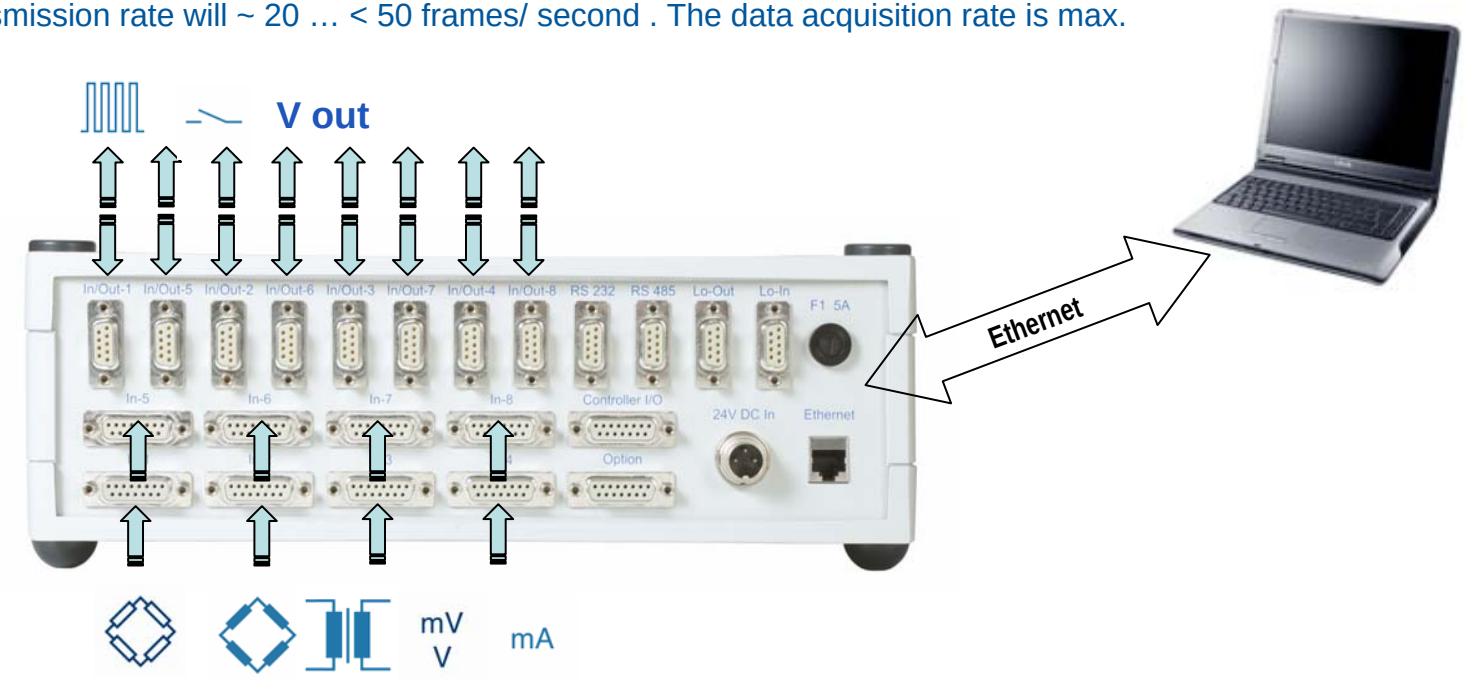
e.wave 4 channels CF and 4 DC channels; sample rate up to 10000 /s; PAC

- 4 x 1 Strain gauge full and half bridges, inductive bridges, LVDT (In-1,..,In-4)
  4 x 2 digital output and 4 x 2 digital input (In/Out-1,..,In/Out-4)
  4 x 2 voltage output (In/Out-1,..,In/Out-4); for detailed technical information refer to **e.bloxx A6-2 CF**.
  4 x 1 Strain gauge full bridge, Voltage, Current (In-5,..,In-8)
  4 x 1 voltage output (In/Out-5,..,In/Out-8); for detailed technical information refer to **e.xact IP.**

Data exchange with **DIAdem™, PLab** by PLUG & PLAY . The use of **LabVIEW™** requires a vi file

Data logging and conversion of data format with **Green Eye-Reader**

The data transmission rate will ~ 20 … < 50 frames/ second . The data acquisition rate is max.



Customer

ATLANTA Antriebssysteme, E. Seidenspinner GmbH & Co. KG Gear & Drive units for automotive industrie	Temperature, Torsion (voltage) + Mlab
BMW Group Comfort of seat, Lifecycle test on elasticity	Force, Temperature, Voltage + Diadem
DaimlerChrysler AG Lifecycle on components (door, Window, wiper, ..)	Voltage, Current, Force + Diadem
Krauss Maffei Dienstleistung GmbH Airbag System, seat, front pannel	Voltage, Force, Temperature + MLab
Liebherr-Aerospace Lindenberg GmbH Landing Gears	Force + MLab
Linde Material Handling GmbH & CoKG Forklift Trucks	Temperature, Voltage, Force, Frequency + MLab
MAN Diesel SE large diesel engines for ship propulsion systems, stationary power supply and rail traction	Force
Schaeffler KG, SKF GmbH, ZF Sachs AG Lifetime of berings for trucks, cars	Temperature, Force, Torsion + Diadem
SCHOTT Solar GmbH Photovoltaic elements	Voltage, Current + EXCEL