



The e.bloxx series is designed for industrial and experimental test systems requiring precise high speed measurement of electrical, thermal, and mechanical quantities in engine and component test beds.

All units are based on a clean modular design, and easily connect to the wide variety of field devices used in today's test beds. Sample rates up to 5000 Hz and resolutions up to 19 bit are possible depending on the module and signal type used. Standardized communication protocols (Profibus-DP, and Modbus-RTU) allow the e.bloxx family to work with a wide variety of application hardware and software.

With the addition of a Test Controller the data throughput and connectivity options increase dramatically. The controller are data concentrator, communication gateway, and optional programmable automation controller with 100 Mbps Ethernet, Profibus-DP, EtherCAT, or USB ports.



ISK 200

Converter between PC and measurement modules

RS-232 to RS-485 and USB to RS-485

Power supply for measurement modules

20 VDC for the voltage supply of up to 6 e.bloxx modules

Galvanic isolation up to 1.5 kV

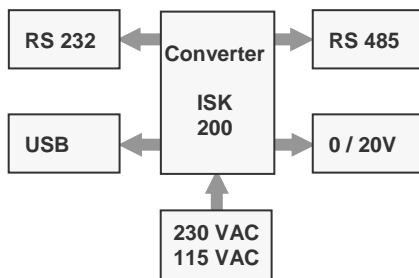
Protection of measurement modules from damaging voltages

Automatically baud rate detection

Baud rate up to 115.2 kbps

LED status display

Power, receive and transmit



Order Information

| Product | Article No. |
|---------|-------------|
| ISK 200 | 229682 |

Additional Features

- Desktop packaging
- Integrated, switchable bus terminator
- 115 VAC and 230VAC version
- Plug-in screw terminals up to 1.5mm²
- Electromagnetic Compatibility according to EN 61000-4 and EN 55011

ISK 200 Technical Data

Interfaces

| | |
|--------------------|--|
| Baud rate | max. 115.2 kbps automatic detection |
| Galvanic isolation | |
| RS 485 - RS 232 | 1.5 kV |
| RS 485 - USB | 1.5 kV |

RS 232-C

| | |
|------------|------------------------------------|
| Type | according to EIA Standard RS-232 C |
| Connection | cable with 9 pin D-Sub plug |

RS 485

| | |
|------------|--|
| Type | according to Proposal No. 1488 and Subcommittee TR-30.1 |
| Connection | plug-in screw terminals up to 1.5 mm ² RJ 45 plug |

USB

| | |
|------------|------------------|
| Type | Standard USB 1.1 |
| Baud rate | 12 Mbps |
| Connection | Socket Type B |

Power Supply

| | |
|-------------------|------------------------------------|
| Supply voltage | 230 VAC, version 115 VAC available |
| Power consumption | max. 24 VA |
| Connection | Standard cable with Euro plug |
| Fuse primary | 100 mA / inert |

Mechanical

| | |
|------------------------|--|
| Desktop case | |
| Material | ABS |
| Dimensions (W x H x D) | 95 x 45 x 155 mm (3.74 x 1.77 x 6.10 in) |
| Weight | 700 g (1.54 lb) |
| Protective system | IP40 |

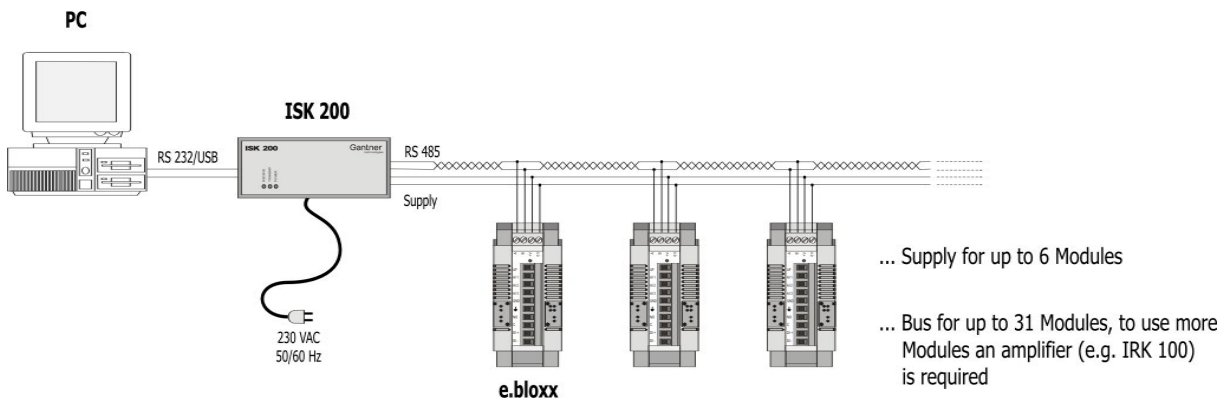
Environmental

| | |
|-----------------------|--|
| Operating temperature | -20 °C to +60 °C |
| Storage temperature | -30 °C to +85 °C |
| Relative humidity | 5 % to 95 % at 50 °C non condensing |

Voltage Output

| | |
|-----------------|-------------------------------------|
| Nominal voltage | 28 VDC |
| Output voltage | 20 VDC at 0.5 A |
| Output power | 10 W not short circuit protected |

Connection of the ISK 200 converter



Valid from October 2006. Specification subject to change without notice.
DB_ISK200_E_10.doc