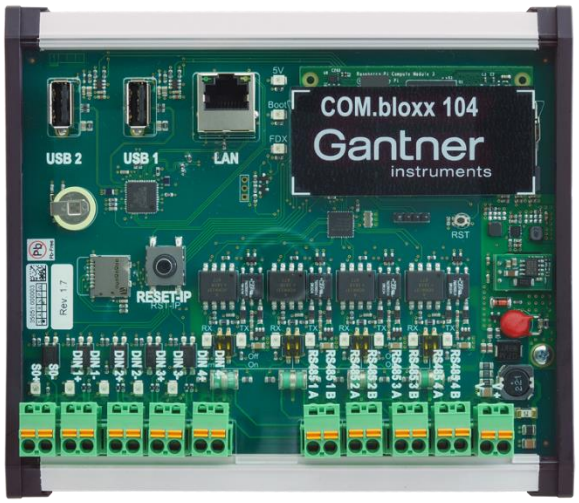
COM.bloxx 104

COM Server



Key features:

MADE IN GERMANY

- **Extension module for the Q.reader**
- **4 x RS485 fieldbus interface**
  Up to 115,2 kbps
  galvanic isolated
- **4 Digital Inputs**
- **1 Digital Counter Input (S0) up to 1kHz**
- **Ethernet interface for configuration and data transfer**
  TCP/IP, UDP
- **Analog and digital channel extension via Z.bloxx or Q.series modules**
  up to 24 bit resolution, sample rate 1 s up to 24 h
- **Connectivity**
  Protocols from all leading inverter manufacturers are integrated
  I/O devices (e.g. weather stations, medium voltage parameters)

The COM.bloxx 104 “COM Server” is an extension module of the Gantner Q.reader data logger / power plant controller “PPC”.

The data transmission is possible via cable (Ethernet / LAN). The COM.bloxx meets the standard security requirements.

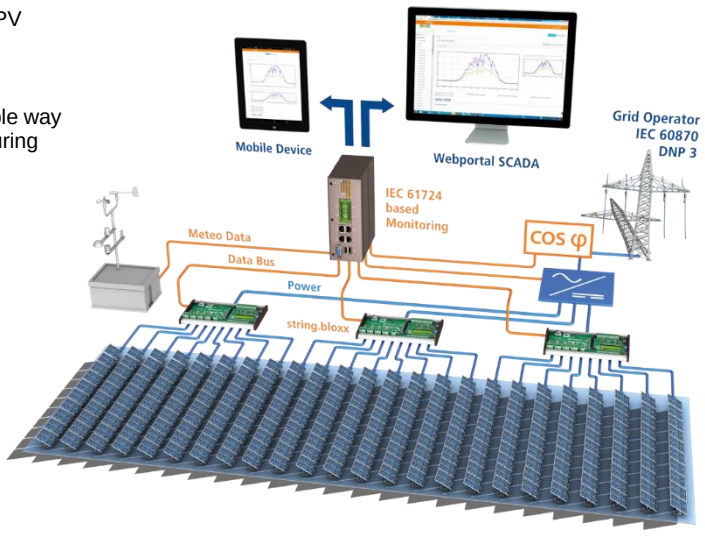
The data acquisition system grows with the requirements. It is possible to expand the system with distributed measurement modules at any time.

The COM.bloxx modules in operation with the Q.reader head unit is able to handle the logging and control of all information needed to operate a PV power plant:

- string level (current, voltage)
- inverter data
- meteorological data from weather stations
- grid measurements
- other state variables (switch gear, transformer status).

Effective PV Monitoring requires constant, solid and traceable PV Plant monitoring data to determine the actual performance and thereby meet the expectations of the owner and investor.

Operators are interested to identify errors and losses in a reliable way to take appropriate measures for maximizing energy harvest during the total lifetime of the system.



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COM.bloxx 104

COM Server

Data logging and control	
Sample interval	1 s per channel
Data memory	8GB industrial flash
Operating system	Linux
Communication Interface	
RS485	4 galvanically isolated
Ethernet TCP/IP	1
USB	2
Protocols	Modbus-RTU, Modbus TCP, inverter protocols
Connection	0.25 mm² - 1.5 mm² push-in spring-cage connection
Digital Inputs	
Number	4
Input	State
Connection	0.25 mm² - 1.5 mm² push-in spring-cage connection
Digital Inputs Counter	
Number	1
Input	Counter/S0 up to 1 kHz
Connection	0.25 mm² - 1.5 mm² push-in spring-cage connection
Configuration Interface	
Web frontend	web browser
Recommended web browser	Latest Google Chrome
Default IP	192.168.1.1
Default Login user	Admin
Default Login password	1234
Power Supply	
Power supply	18V to 36 VDC
Power consumption	approx. 3 W

Environmental	
Operating temperature	-10 °C up to +55 °C
Storage temperature	-40 °C up to +85 °C
Relative humidity	5 % up to 95 % at 50 °C, non-condensing
Mechanical	
Case	Polyamide/PA
Dimensions (H x W x D)	165x145x55 mm
Weight	approx. 320 g
Mounting	DIN rail mounting (EN 50022)