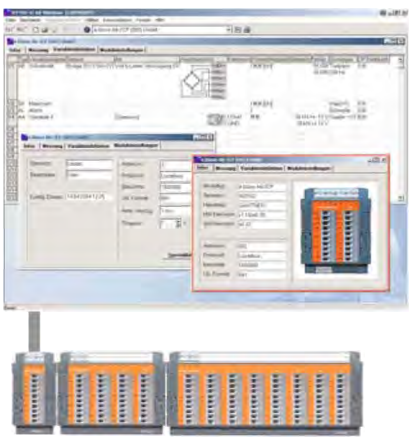
ICP 100

Module Configuration Software

Gantner instruments



ICP 100 is a 32-bit application for Windows® 95, 98, 2000, NT and XP to configure the e.bloxx series and the ISM series modules

ICP 100 makes it easy to setup and debug a set of modules over RS-485.

- *Signal Type*
- *Linearization, Scaling, and Filtering*
- *Read and Write filed values*
- *And much more*

Configurations can be created "offline" stored to disk, and then loaded into a new system for easy commissioning.

Easy and fast configuration

Supports all modules of the e.bloxx, ISM, and IDL series

Compatible to all Windows® versions from Win 95

Database with standard and custom sensors

Many predefined sensors (e.g. Pt100, Thermocouple, etc) and with the ability to add more (User defined)

Project management

Complex multi-channel configurations stored in one file

Firmware download for e.bloxx, ISM, and IDL modules

Easy to stay current

Order Information

Product	Article No.
ICP 100	633214
Interface Converter RS232 / RS485	
ISK 200	229682
ISK 101	689326

Additional Features

- Languages: German, English, and French
- Extensive online help
- Free upgrades

- Clear tabular structure of variables
- Field measurement values and variables accessible
- Sensor database for all usual sensors

- Import and export functions for sensor configurations
- Easy setup of calibration values
- Strain calculator for fast calibration in µm/m
- Online functions like zeroing, taring, reset or status

- Configuration file per module or per project
- Supports RS232 standard, modem and RF-modem as well as TCP/IP socket

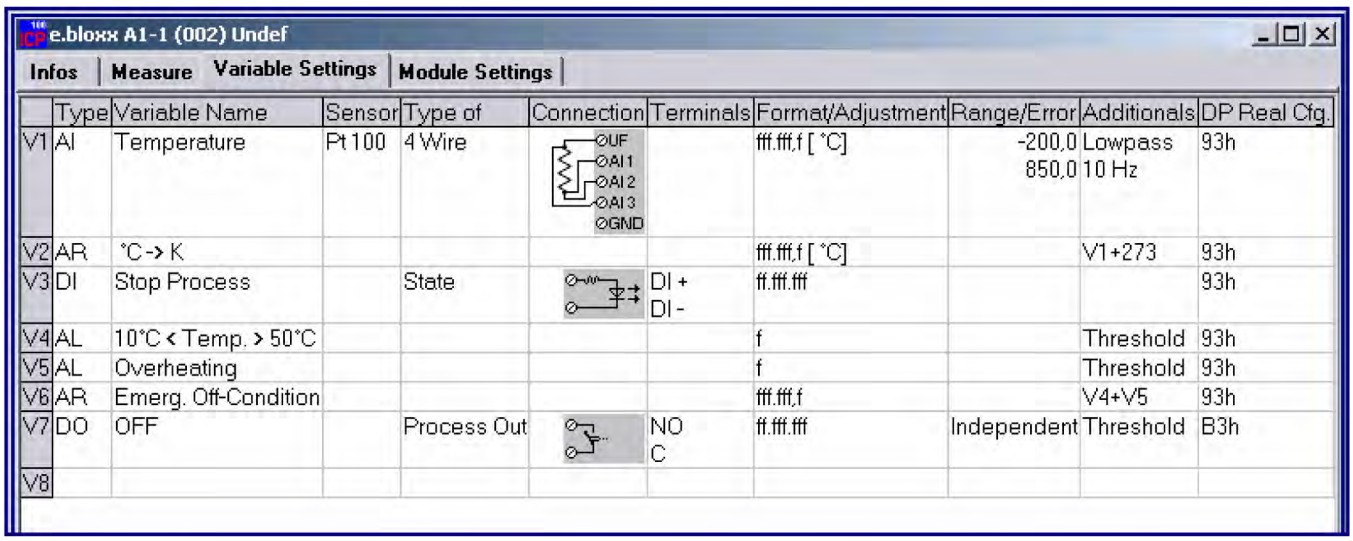
Gantner Instruments Incorporated
9835 Carroll Centre Road, Suite 100
San Diego, CA 92126 USA

■ **www.gantnerinstruments.com**
Toll Free: (877) 725-6997 (877 QBLOXXS)
Direct: (858) 537-2060

■ **info@gantnerinstruments.com**
Toll Free Fax: (800) 303-9381
Direct Fax: (858) 537-2064

ICP 100 Configuration

Configuration of modules with the ICP 100 is as simple as filling out a table. Each row in the table corresponds to one variable (V1, V2, etc.). Variables can be defined as an actual measurement channel, equations, alarms, or other functions. For each variable the desired details can be set via the corresponding column:



	Type	Variable Name	Sensor	Type of	Connection	Terminals	Format/Adjustment	Range/Error	Additionals	DP Real Cfg.
V1	AI	Temperature	Pt 100	4 Wire			fff.fff,f [°C]	-200,0 850,0	Lowpass 10 Hz	93h
V2	AR	°C -> K					fff.fff,f [°C]		V1+273	93h
V3	DI	Stop Process		State		DI + DI -	ff.fff.fff			93h
V4	AL	10°C < Temp. > 50°C					f		Threshold	93h
V5	AL	Overheating					f		Threshold	93h
V6	AR	Emerg. Off-Condition					fff.fff,f		V4+V5	93h
V7	DO	OFF		Process Out		NO C	ff.fff.fff	Independent	Threshold	B3h
V8										

1 2 3 4 5 6 7 8 9 10

Column 1 - Type

Value depends on the module type chosen
- analog or digital input
- analog or digital output
- alarm
- arithmetical function
- signal conditioning
- reference value

Column 2 - Variable Name

A user defined name (max. of 20 characters) can be entered for each variable.

Column 3 - Sensor

Selection of the sensor according to the measurement quantity or the principle of measurement (e.g . voltage, Pt100, TC Type K, bridge, LVDT, ect.). It is possible to add user defined sensors and characteristics to the data base or to modify the existing ones.

Column 4 - Type of

In this column you can select the type of measurement of the sensor (e.g. 2, 3 or 4 wire, with or without cold junction compensation, full or half bridge). The possibilities of selection for digital inputs are status, frequency measuring or counter. Status or process controlled and pulse width modulation for the digital outputs.

Column 5 / 6 - Connection / Terminals

The columns Connection and Terminals display, how the selected sensor must to be connected to the module. A wiring diagram of the terminals will be displayed according the module and the connected sensor type.

Column 7 - Format / Adjustment

The data format (e. g. integer or real) is selected in this column as well as the field length, the number of decimals and the unit. Further it is possible to do calibration/scaling of the measurement. The strain calculator, the release of zeroing and taring as well as the memory reset are available as well.

Column 8 - Range / Error

Define the range and the limits of the input channels. The behavior in case of exceeding this limits are defined as well. Also the behavior at alarm and communication time outs can be selected.

Column 9 - Additionals

For each type of variable different additional functions can be elected. For the input variables, averaging and digital filter characteristics can be configured. For the digital outputs and the alarm functions various parameter can be set. For analog outputs, changing the input variable is possible

Column 10 - Profibus-DP configuration

This column displays summarized the configuration for Profibus-DP communication.

Valid from October 2006. Specification subject to change without notice.
gantner-icp100.pdf

Gantner Instruments Incorporated
9835 Carroll Centre Road, Suite 100
San Diego, CA 92126 USA

■ **www.gantnerinstruments.com**
Toll Free: (877) 725-6997 (877 QBLOXXS)
Direct: (858) 537-2060

■ **info@gantnerinstruments.com**
Toll Free Fax: (800) 303-9381
Direct Fax: (858) 537-2064