



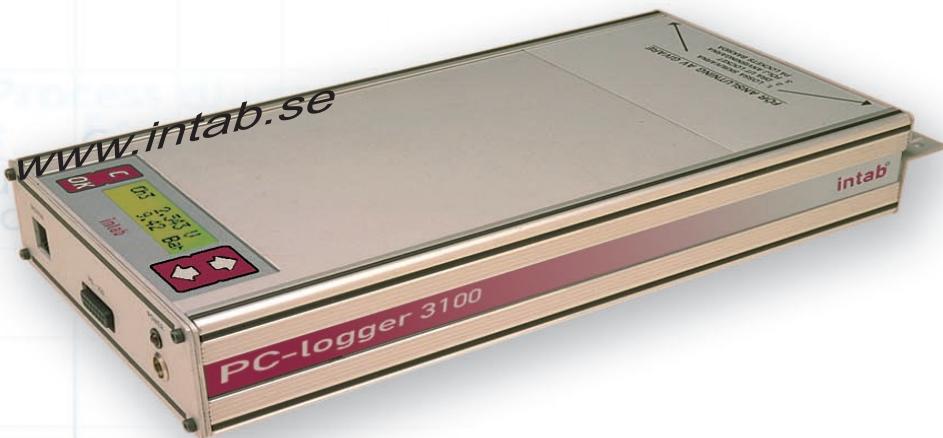
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INSTRUMENTATION DEVICES SRL

# PC-logger 3100

High quality data logger - made in Sweden



- on-line
- 8 analog inputs
- 16 bit resolution

#### Options:

- off-line - stores up to 580.000 samples
- up to 24 analog inputs
- 6 pulse counters
- alarm outputs
- programmable inputs:  
thermocouple, voltage,  
0(4) - 20 mA
- jack panels, modems, etc.

Please find additional info on [www.intab.se](http://www.intab.se)

## DATA ACQUISITION AND ANALYSIS

PC-logger 3100 - with EasyView Pro - hard to beat

**intab<sup>o</sup>**

# PC-logger 3100°

## Technical data°



### Analog Data°

Method of measurement	Σ-Δ-conversion.		
Measurement interval	Programmable in 1s-steps - min 1s. All channels sampled within the same second.		
Inputs	8, 16 or 24 true differential inputs.		
Impedance	Min 400kΩ between + and -. (51Ω current shunt.) Min 5MΩ to ground reference.		
Overvoltage protection	30V continuous on voltage inputs.		
Ranges	Fixed or software range switchable		
Voltage	+/- 10V, +/- 1000mV, +/- 100mV, +/- 50mV		
Current	+/- 20mA		
T/C - linearization:	B, E, J, K, N, R, S, T,		
Divisions/Dynamic range	Min. +/-25.000 divisions		
Resolution	10V	range:	0.4mV
	1V	"	40µV
	100mV	"	4µV
	50mV	"	2µV
	20mA	"	1µA
Termo emf 50mV FS:	T/C J, K, T, E		0.1°C
	T/C S		0.3°C
<b>Accuracy</b> (at 25°C +/-10°C)			
Voltage	+/- 0.01% - +/-0.04% of FS		
Current	+/-0.04% of FS		
Cold junction	+/-0.5°C		
Temperature Coefficient	max 50ppm/°C		
Noise	+/-1 bit (=division)		
Common mode-range at FS 10V	min +/- 5V		
Common mode-all other ranges	min +/- 10V		
CMRR (dc)	min 80dB		

### Computer Interface°

Standard	Serial, subset of RS-232
Format	8 bit ASCII, 1 Start bit, 1 Stop bit,
Parity	None
Baud rate	19200 Baud
Protocol	ASCII-strings

### Power°

Mains Adapter	12 - 15VDC
Voltage	400 mA
Operating current	Max 200 mA (Initial)
Charging current	Max 60mA (trickle charge)
Built-in accumulators	Max. 24 hours with 12VDC mains adapter.
Charging time	3 - 500 hours of operation depending on sampling interval and which add-ons are present.
Capacity	Max 200uA in sleep mode, 200 mA while sampling.
Operating current	

### Mechanical°

Length	315 mm
Width	165 mm
Height	60 - 88mm (model dependent)
Weight	1.7 - 2.5 kg (model dependent)
Operating temperature	-20 - +60°C

### Accessories°

Wallmount incl. strain relief for sensor connections



### Sold by:

**INTAB Interface-Teknik AB**  
Gjutarevägen 1 SE-443 61 STENKULLEN, Sweden  
Tel. +46 (0)302 246 00 Fax. +46 (0)302 246 29  
[www.intab.se](http://www.intab.se)

### OPTION: Customized Jack Panels°



### OPTION: Data Memory°

Basic size	Display + 64 kB (stores 32.000 values)
Expansion	512kB or 1MB

### OPTION: Digital In/Out & Pulse Counters°

Digital outputs	4
Number	Voltage free relay contacts (NO)
Type	45V AC/DC
max. switched voltage	1.25A DC/AC
max. switched current	
Digital TTL inputs	6
Number	Max 0.8V
"Low" logic level	Min 3.5V
"High" logic level	Min 50kΩ (passive pull down)
Impedance	15V
Max input voltage	Min 65kHz at 5V in and 50% duty cycle
Max pulse freq. (active signal source)	Max 15ms
Min pulse width (active signal source)	65535
Max counter reading	
Digital opto-isolated inputs	8
Number	
Auxiliary voltage output:	V-Out
Vo - for optocouplers	Mains Adapter Voltage (nominal 12VDC)
Vp - for TTL-inputs	max. 15VDC), max 100mA.
	4 - 6V, Impedance 1kΩ

### OPTION: Constant Current Sources°

Number	8, 16 or 24 time multiplexed sources
Constant current	0.500mA
Accuracy	+/-0.2% at 25°C +/-10°C
Temperature Coefficient	max 50ppm/°C
Load	< 5kΩ

### Software

PC-logger 3100 is supported by EasyView Pro. For easy setup of your logger and first-class viewing of your recordings - on-line or off-line.



The five intuitive zooming tools together with characteristic and statistical values make this software package supreme when it comes to presentation of your measurement data.

Formulas for calculation, a project manager and presentation of process diagram are also included features.

Please download brochure or demo from [www.intab.se](http://www.intab.se)

**EasyView Pro**  
- focusing on graphing