# Universal Data Logger ELPRG



Advance notice, Available from End of February 2002

### **HOTBOX SE**

Universal data logger for signals:

2 channels: NTC temperatures -50°... +140°C

2 channels: Signals 4mA .. 20mA

2 channels: DC voltages, programmable +/- ranges

(DC ranges programmable for Hygroclip humidity and temperature sensor)

Out of the 6 channels any 4 channels can be selected to record the data.

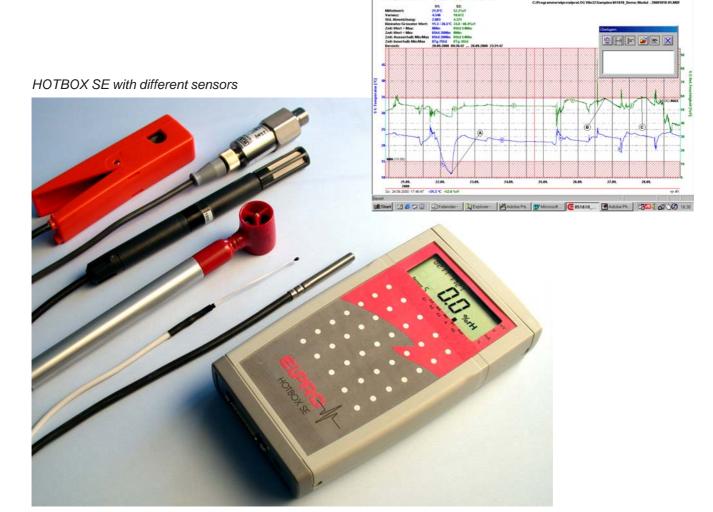
Easy configuration, 64'000 of measured values, large display, sensor supply by Datalogger, alarm possibility etc. Evaluation software: elproLOG WIN.

Ideally for the autonomous recording of any measured value of a sensors or a signal transmitter:

- Pressure in a process
- CO<sub>2</sub> concentration in the environment
- gas concentration as O<sub>2</sub> or others
- electrical data as current or voltage
- temperature
- humidity and temperature combined
- speed of air in a conduct
- depth of water in a river
- force applied to a probe
- or any combination

Supply of the sensors is done by the HOTBOX SE, using internal batteries or a net supply, controlled by a special power save procedure.

software: elproLOG WIN



# Universal Data Logger CIPRC



### **HOTBOX SE**

#### Features of data logger

#### **Autonomous Measuring, Recording** Displaying, Alarming

HOTBOX SE, the new data logger from the Swiss company ELPRO, is the ideal device for recording process data. It is simple to operate, easy to handle and can be adjusted quickly to suit all required measurement applications. It is possible to connect: 2 temperature sensors, 2 probes with 4..20mA and 2 sensors with DC voltage signals. The large display shows the values measured by the sensor, in the unit of measurement selected by the customer, periodically and independent of the storage cycle. Any 4 channels can be selected for recording the measured data in the memory which has a capacity for 64,000 data points. You can display recorded data at any time in the form of a graph on the PC.

#### Mobile Use for Service and Installation **Technicians**

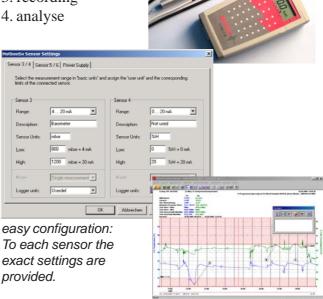
For example, high pressure 0..30 bar, low pressure 0..10 bar and 2 temperatures -50°C to + 140°C for inflow and return-flow are recorded. Or the speed of air flow in m/s is shown in conjunction with temperature and air humidity. This simplifies system optimization methods and system acceptance report procedures. Customer sensors can also be connected to the device (screw clamps)

#### Sensor supply by internal batteries

The brilliantly designed sensor supply and the energy saving mode allow you to use the device without an external energy supply for the sensors. A simple installation procedure allows you to create reliable documentation for processes in clean room atmospheres and test chambers. Differential pressure 0...100 Pa together with temperature and air humidity

easy handling

- 1. choose the sensor
- 2. configure
- 3. recording



are the most important quantities. Or, outdoors in a watertight box, it is possible to record the depth of groundwater or streams in conjunction with climatic values. Or, it is important to record and provide documentation about the air quality in large auditoriums. In incubators it is possible to record CO2 values in conjunction with °C and %rH.

#### Alarms and easy evaluation of the data

Any sensor can be programmed to trigger an external alarm. ElproLOG the uncomplicated evaluation software displays measured values in the form of graphs and allows for many additional functions and the implementation of all ELPRO dataloggers. The motto, one software for all ELPRO dataloggers, simplifies documentation in connection with ISO quality assurance or GLP applications.

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### **HOTBOX SE**

#### **Universal Data Logger and Accessories**



#### **Universal Data Logger HOTBOX SE**



#### Advantages:

Freely programmable units such as pressure, CO2, m/sec, etc. capacity for 64'000 data points
Autoscroll Display (all channels are alternating displayed)
Sensor supply by internal batteries 2x 9V = 18V
Link for external sensor supply

Easy PC analyse with elproLOG WIN Software
Online representation over user terminal program or Hyperterminal
Alarm output over inserted DC switch
Connectors: DB15 for PC, printer, terminal
4-pins for 2x NTC Temperature probe
5-pins for 2x 4-20mA signals
7-pins for 2x DC signals and sensor supply

Data Logger HOTBOX SE Art. Nr. 2501
Suitcase with PC Software and PC cable Art. Nr. 2810-SE



#### connectors for sensorlinks

connector 4p with terminals (for 2x NTC probes) 2540-P4 connector 5p with terminals (for 2x4-20mA) 2540-P5 connector 7p with terminals (für 2xDC signals) 2540-P7 Mounting to connector and testting (without material) 2540-B



#### pressure transmitter stainless steel

pressure transmitter -1..9 bar, G 1/4", 4..20mA 3280-A pressure transmitter -1..24 bar, G 1/4", 4..20mA 3280-B pressure transmitter 0 .. 1 bar, relative, G 1/2", 4..20mA 3280-C > pressure transmitter from 0..0,1 to 0..4000bar on request



#### Temperature probes -50°..+140°C

NTC miniature temperature probe, small and fast 3055-L03
Dipping probe flexible (only up to +110°C) 3093-L03
Universal probe DS=6mm, LS=50mm 3090-L03
> more types, until 50m cable, you will find in the ELPRO sortiment



#### Differential pressure in clean rooms

Differential pressure , -50.. +50Pa, 4..20mA > other ranges on request

3260-L



**Humidity and temperature combine** 

Hygroclip Sensor humidity / temperature, DC



3088-A

3216-L01

### and parte and

**Depth of water recording with compensation** Water level transmitter T=0..10 meters, 4..20mA > ranges from 0..2,5 m to 0..250 m are available

3263-C



Extension cable 1m for Hygroclip (incl. connector 7P)

#### **AC Current recording**

Ampere clamp Mini2 for 1..150 Amp AC 3268 Ampere clamp YCV5, for 2..500 Amp.AC 3269





#### Air quality in auditories: CO2 recording

CO2 transmitter 0..2000ppm, 0..10V/4..20mA CO2 transmitter 0..2000ppm, for conducts

3271-F 3271-G



#### air speed 0,3 .. 20 m/s

air speed sensor output DC 0..2V 3264-C air speed sensor output 4 - 20 mA 3264-D

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#### Harmful gases: CO recording

CO Gas transmitter 0..300ppm, 4..20mA

3272-A

> other ranges and Meteo probes on request

> ask for suitable sensors for higher concentrations as well as other gases as O2, N2, etc.

## **HOTBOX SE**

#### Configuration for some applications





#### Recording pressure at the compressor

For purposes of optimization, high pressure, low pressure and two temperatures are recorded simultaneously.

#### Material:

1x	HOTBOX SE universal data logger	2501
1x	Pressure sensor -19 bar	3280-A
1x	Pressure sensor -124 bar	3280-B
2x	NTC Temperature sensors -50°140°C	3055-L03
1x	Connector for 2 NTC sensors	2540-P4
1x	Connector for 2 pressur transmitter	2540-P5
2x	Mounting to connector and testting	2540-B



#### Multiple recording for climat

Humidity and temperature in a conduct inclusive air speed. Additional temperature outside are recorded simultaneously.

#### Material:

1x	HOTBOX SE universal data logger	2501
1x	Hygroclip Sensor humidity / temperature	
1x	Extension cable f. Hygroclip	3216-L01
1x	Air speed sensor 020m/s, 440mA	3264-D
1x	Connector for 2 sensors 420mA	2540-P5
1x	NTC Temperature sensors -50°+140°C	3090-L10
1x	Connector for 2 NTC sensors	2540-P4
2x	Mounting to connector and testting	2540-B



#### Fresh air monitoring

How much current uses the ventilation engine? What is the air speed in the air duct? All this and 2 temperatures are monitored.

#### Material:

1x	HOTBOX SE universal data logger	2501
1x	Air speed sensor 020m/s, 02V	3264-C
1x	Ampere clamp Mini2 for 1100 Amp AC	3268
1x	Connector for 2xDC signal sensors 7P	2540-P7
2x	NTC Temperature sensors -50°140°C	3090-L10
1x	Connector for 2 NTC sensors	2540-P4
2x	Mounting to connector and testting	2540-B

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