

- Temperature in °C, °F or K.
- 1- or 2-point calibration of each channel to any known temperature
- Data-logging up to 18000 data sets
- On screen help in 4 languages
- Hold function
- Automatic sequential view of all channels and allows to send the measurements simultaneously to a printer or computer
- Individual high/low limits for each channel
- 2 relays that can close or open upon the following events:
  - Alarm
  - Low alarm
  - High alarm
  - Measurement active
  - Measurement inactive
  - Stand-by
- Automatic continuing after a power failure
- GPL report
- Galvanic isolated USB interface
- Free software



T8710 and T8720 each has it's own speciality:

T8710 can use up to 16 thermocouples (J,K,T and E type), ideal for long distance measurements requiring a short response time with a reasonable accuracy.

T8720 can use up to 12 Pt100 probes, ideal for highly accurate measurements at short or medium distances

Various features are provided in each instrument. Both USB and RS232 are provided for communication with a PC or printer.

### T8710

Measurement Channels	16
Type J	-200...900°C
Type K	-200...1370°C
Type T	-200...600°C
Type E	0...1000°C

### T8720

Measurement Channels Pt100	12
	-200...850°C

Warranty  
Made in Belgium

36 months

Code	Description
T8710	thermometer includes USB cable
T8720	thermometer includes USB cable
A4800	wall mounting kit (optional)
AP414	serial printer
T3002K	roll of type-K wire, 100 m, PVC
T3012K	roll of type-K wire, 100 m, teflon
T3022K	roll of type-K wire, 100 m, fibre
T4420	3-wire Pt100 temperature probe with 20 m cable
T4422	3-wire Pt100 temperature probe with 2 m cable for high temperature

<b>T8710</b>	
<b>Measurement Channels</b>	<b>16</b>
<b>Type J</b>	-200...900°C
<b>Type K</b>	-200...1370°C
<b>Type T</b>	-200...600°C
<b>Type E</b>	0...1000°C
<b>T8720</b>	
<b>Measurement Channels</b>	<b>12</b>
<b>Pt100</b>	-200...850°C
<b>Warranty</b>	36 months
<b>Made in Belgium</b>	



## ● Description

T8710 and T8720 are our multi channel thermometers. Each has it's own speciality:

- T8710 can use up to 16 thermocouples (J,K,T and E type) and is ideal for long distance measurements requiring a short response time with a reasonable accuracy.
- T8720 can use up to 12 Pt100 probes and is ideal for highly accurate measurements at short or medium distances

Various features are provided in each instrument. Both USB and RS232 are provided for communication with a PC. A printer can be attached directly to the RS232 interface.

## ● Overview

**Temperature** shown in °C, °F or K. Common or individual 1- or 2-point calibration of each channel to any known temperature, eliminating variations from probe to probe.

**Data-logging** up to 18000 data sets can be stored manually or at a programmable interval. Download free data acquisition software from [www.consort.be](http://www.consort.be) to view, store and edit the measurements in your computer. Stores minimum/maximum readings for each channel.

**Display** Bright LCD screen with white back-light for better readability. The interactive LCD screen provides step by step instructions in the language of your choice (English, Dutch, French, German).

**Hold function** allows to freeze the display

**Alternating mode** enables an automatic sequential view of all channels and allows to send the measurements simultaneously to a printer or computer.

**Alarms.** Individual high/low limits for each channel alerts the user and can close a relay when readings stray outside limits.

**2 relays** that can close or open upon the following events:

- Alarm
- Low alarm
- High alarm
- Measurement active
- Measurement inactive
- Stand-by

**GPL report** can be shown on the display or sent to the digital port.

**Galvanic isolated USB interface** eliminates ground loop effects when connected to a PC.

**Automatic continuing** with the measurements or data-logging after a power failure.

## ● Specifications

### T8710

<b>TEMPERATURE</b>	Range, Type J	-200...900°C (-328...1652°F)
	Range, Type K	-200...1370°C (-28...2498°F)
	Range, Type T	-200...600°C (-328...1112°F)
	Range, Type E	0...1000°C (32...1832°F)
	Resolution	<1000°: 0.1°C (0.1°F) >999.9°: 1°C (1°F)
	Accuracy	0.5% ±0.5°C (±1°F)
	RJC Error	0.05°C/°C
	Calibration	1...2 points
<b>INPUTS</b>	Channels	16
		terminal blocks for 16 thermocouples
<b>CALIBRATION</b>	GLP Protocol	✓
<b>DISPLAY</b>	LCD	128x64 pixels
	Alternating	✓
	Hold Function	✓
	Selectable Resolution	✓
	Real Time Clock	✓
	Languages	EN, NL, FR, DE
<b>COMMUNICATION</b>	Interface with computer	USB
	RS232, baud rate	300...19200 b/s
	Printer	✓
<b>DATA-LOGGING</b>	Values	18000 + date/time
	Manual	✓
	Timed	✓
	Interval	4...9999 s
<b>ALARM</b>	Relays	2, max. 50 V/200 mA
<b>SECURITY</b>	Identification Number	✓
	Password Protection	✓
<b>AMBIENT CONDITIONS</b>	Temperature	0...40°C
	Humidity	0...95%, non condensing
<b>POWER SUPPLY</b>	Mains	90...250 VAC, 50/60 Hz
<b>DIMENSIONS</b>	WxDxH	26x18x9 cm
<b>WEIGHT</b>	Meter	1 kg

### T8720

<b>TEMPERATURE</b>	Range, Pt100	-200...850°C (-328...1562°F)
	Resolution	0.1°C (0.1°F)
	Accuracy	0.1% ±0.3°C (±0.5°F)
	Calibration	1...2 points
	Channels	12
<b>INPUTS</b>		terminal blocks for 12 Pt100 probes
<b>CALIBRATION</b>	GLP Protocol	✓
<b>DISPLAY</b>	LCD	128x64 pixels
	Alternating	✓
	Hold Function	✓
	Selectable Resolution	✓
	Real Time Clock	✓
	Languages	EN, NL, FR, DE
<b>COMMUNICATION</b>	Interface with computer	USB
	RS232, baud rate	300...19200 b/s
	Printer	✓
<b>DATA-LOGGING</b>	Values	18000 + date/time
	Manual	✓
	Timed	✓
	Interval	4...9999 s
<b>ALARM</b>	Relays	2, max. 50 V/200 mA
<b>SECURITY</b>	Identification Number	✓
	Password Protection	✓
<b>AMBIENT CONDITIONS</b>	Temperature	0...40°C
	Humidity	0...95%, non condensing
<b>POWER SUPPLY</b>	Mains	90...250 VAC, 50/60 Hz
<b>DIMENSIONS</b>	WxDxH	26x18x9 cm
<b>WEIGHT</b>	Meter	1 kg



## ● Ordering codes

Code	Description
T8710	thermometer includes meter + USB cable
T8720	thermometer includes meter + USB cable
A4800	wall mounting kit (optional)

→ Supplied with a mains adaptor (100...240 VAC, EU/US). Add -UK for UK plug versions, -CH for Swiss plug versions.