

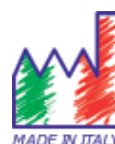


WARRANTY  
**5**  
YEARS

# TEMP *Vio*

DIGITAL PORTABLE THERMOMETER

PT 100  
NTC 30 K $\Omega$   
THERMOCOUPLE K/T



# TEMP70<sup>vio</sup>



Thermometers XS Vio are designed to offer the best performance combined with a simple and intuitive user interface. They are conceived, designed, produced and assembled in Italy, thanks to the union of expert teams in metrology.

## DUAL CHANNEL CENTESIMAL THERMOMETER

for PT 100 probes

Range -200,0 ... +999,0 °C

It is the ideal choice for accurate and precise measurements on a wide range of measurements.

The dual centesimal channel allows the use of the Temp 70 Vio in many applications.

The two measurement channels are simultaneously displayed in a single screen, together with the difference between the readings ( $\Delta T$ ).

Robust and easy to use, it is equipped with a large color backlit LCD display, for an always clear view, even in poor external light conditions.

Automatic brightness adjustment for a long battery life.

The LED indicates the status of the measurement.

It can be powered by batteries or with the USB power supply.

### FEATURES

- Resolution 0,01 °C
- Dual channel
- Backlit LCD display
- Automatic and manual datalogger
- 1 calibration point with data and time
- MIN / MAX / Delta T functions
- HOLD function
- Stability indication
- 3 Stability levels: H - M - L
- Date and time
- micro-USB connection
- DataLink free software
- IP56 protection
- Accredia Certificable



Equipped with the PT56L 1/5 DIN probe (optional) it reaches the maximum accuracy.  
Perfect as a primary thermometer.



Keyboard



Dual channel PT 100

### HOW TO ORDER

### P/N

**TEMP 70 Vio PT100**  
WITHOUT PROBE

50111082

#### Supplied with:

Transport case, USB power supply, USB cable for PC connection, batteries and user manual.



## DATALINK

The free software Datalink allows you to remotely control the XS VIO instruments, download stored data, view them in table or graphic form and export them in PDF or Excel file.



## PT100 SENSORS








FOR ACCURATE MEASURES

3 pin connector  
with security lock system,  
to avoid undesired disconnections.





Model and serial number  
on the handle of the probe



Name	Stem length	Stem diameter	Tip	Measuring Range	Certifiable range	t <sub>90</sub> sec	Precision class	P/N
<b>PT56 L</b> AIR - LIQUID	200 mm	Ø= 3 mm		- 50 ... +400	- 50 ... + 300	30	A	51000202
<b>PT56 C</b> CONTACT	200 mm	Ø= 5 mm		- 50 ... +400	- 50 ... + 300	120	A	51000212
<b>PT56 P</b> PENETRATION	150 mm	Ø= 4 mm		- 50 ... +400	- 50 ... + 300	60	A	51000222
<b>PT56 A</b> AIR	200 mm	Ø= 4 mm		- 50 ... +250	- 50 ... + 150	60	A	51000232
<b>PT56 L</b> 1/5 DIN	200 mm	Ø= 3 mm		- 50 ... +400	- 50 ... + 300	30	1/5 DIN	51000242
<b>PT56 /500</b> AIR - LIQUID	500 mm	Ø= 6 mm		- 50 ... +400	- 50 ... + 300	60	A	51000262
<b>PT56 /1000</b> AIR - LIQUID	1000 mm	Ø= 6 mm		- 50 ... +400	- 50 ... + 300	60	A	51000272

### WITHOUT HANDLE - FOR OVENS AND INCUBATORS

<b>PT56 TFE</b> AIR - LIQUID	100 mm	Ø= 4 mm		-100... +300 sensor + wire	- 100 ... + 250	30	A	51000252
<b>PT56 TFE</b> AIR - LIQUID	100 mm	Ø= 4 mm		-100... +300 sensor + wire	- 100 ... + 250	30	1/5 DIN	51000292



# TEMP 7 *vio*

## SINGLE CHANNEL THERMOMETER

Sturdy and easy to use, the Temp 7 Vio is equipped with a large color backlit LCD display, for an always clear view, even in low light conditions.

The LED above the display indicates the status of the measurement and can report any errors, visible from a distance.

The self-diagnosis messages, combined with the guided procedures, make the instrument really easy to use and intuitive.

The offset on a custom point allows you to align the measurements in case of slight drift of the chain.

## COMMON FEATURES

- Resolution 0,1 °C
- Backlit LCD display
- MIN / MAX / HOLD functions
- Stability indication
- 1 calibration point on custom value
- Auto off function
- Battery indication
- Self diagnosis messages
- Led
- IP 56 protection
- ACCREDIA Certifiable



Offset regulation



Color backlit LCD display with self-diagnosis messages

## Temp 7 PT 100 *vio*

for PT 100 sensors  
Range -200 ... +999 °C

Thermometer for accurate and precise measurements over a wide range of measurements. Recommended for applications in the laboratory or where an high precision is required. Low temperature measurements down to -200 °C.

It is possible to connect 3-wire PT 100 sensors, using the 3-pin binder connector with secure fastening system.

### HOW TO ORDER

### P/N

**TEMP 7 Vio PT100**  
WITHOUT PROBE

50111012





## Temp 7 NTC *vio*

for 30 K $\Omega$  thermistor  
Range -50,0 ... +150,0 °C

More accurate than a thermocouple and faster than a PT100, the Temp 7 Vio NTC thermometer is ideal for quick measurements in a narrow working range.

Very practical, suitable for the food industry, to control the air conditioning sector, HAVC systems or when it is important to have a good quality / price ratio.

HOW TO ORDER	P/N
<b>TEMP 7 Vio NTC</b> WITHOUT PROBE	50111052
<b>TEMP 7 Vio NTC + NT7L</b> WITH PROBE FOR LIQUID / AIR	50111062
<b>TEMP 7 Vio NTC + NT7P</b> WITH PENETRATION PROBE	50111092



## Temp 7 K/T *vio*

for thermocouple type K and T  
Range -250 °C ... +1350 °C

Thermometer suitable for countless applications in the industrial, pharmaceutical and food sectors, where a wide measurement range and speed are required, combined with a good accuracy.

The main feature is the reading speed: thanks to the thermocouple sensors, measurement stability can be reached within a few seconds.

Great constructive flexibility thanks to the different solutions to adapt the probe to the application: without handle, thin, foldable etc.

*It is possible to adjust separately the offset of thermocouple K and thermocouple T.*



HOW TO ORDER	P/N
<b>TEMP 7 Vio K/T</b> WITHOUT PROBE	50111032

## CASE KIT

All instruments are supplied in a rigid carrying case, where the instrument and all the accessories can be housed.



# PROBES

## THERMOCOUPLE **K**



FOR HIGH TEMPERATURE / INDUSTRIAL APPLICATIONS



Name	Stem length	Stem diameter	Tip	Measuring Range	Certifiable range	t <sub>90</sub> sec	Precision class	P/N
<b>3K 220</b> AIR - LIQUID	200 mm	Ø= 2 mm		- 60 ... +600	0 ... + 400	3	1	51000752
<b>3K 320</b>	200 mm	Ø= 3 mm		- 60 ... +800	0 ... + 600	3	1	51000762
<b>3K 350</b>	500 mm	Ø= 3 mm		- 60 ... +800	0 ... + 800	3	1	51000772
<b>3K 6100</b>	1000 mm FLEXABLE	Ø= 6 mm		- 60 ... +1100	0 ... + 1100	6	1	51000782
<b>3K 6120</b>	1200 mm FLEXABLE	Ø= 6 mm		- 60 ... +1100	0 ... + 1100	6	1	51000822
<b>3K 650</b>	500 mm FLEXABLE	Ø= 6 mm		- 60 ... +1100	0 ... + 1100	6	1	51000792
<b>3K 415 P</b> PENETRATION	150 mm	Ø= 4 mm		- 50 ... +600	0 ... + 600	3	1	51000832
<b>3K 520 C</b> CONTACT	200 mm	Ø= 5 mm		- 60 ... +600	0 ... + 400	15	1	51000802

### WITHOUT HANDLE - IDEAL FOR PIPES AND CRAMPED SPACES

<b>3K 1200</b> MANIPULABLE WIRE	2000 mm	Ø= 2 mm		- 60 ... +400	0 ... + 300	2	1	51000812
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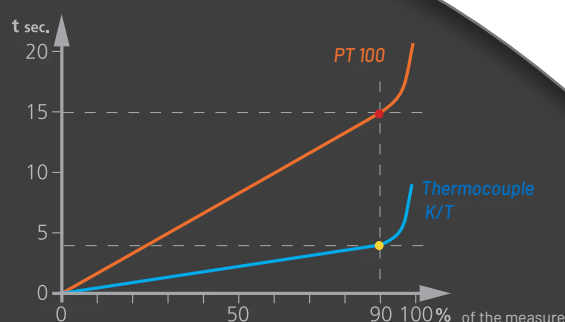


**3K 1200**  
manipulable wire 2 m

### Sensor specifications

	Measuring range	Precision class	Accuracy
<b>PT 100</b>	-100 °C +0 °C +100 °C +200 °C	class A	±0,35 °C ±0,15 °C ±0,35 °C ±0,55 °C
	-100 °C +0 °C +100 °C +200 °C	class 1/5	±0,16 °C ±0,06 °C ±0,16 °C ±0,26 °C
<b>Thermocouple K</b>	-60...+1200 °C	1	±1,5 °C or 0,4% T*
<b>Thermocouple T</b>	-40...+350 °C	1	±0,5 °C or 0,4% T*
<b>NTC 30KΩ</b>	+25...+85 °C -40...+125 °C	-	±0,5 °C ±1 °C

T\*=Measured temperature. Take always the worst case.








Average response time of a probe in a liquid.

## THERMOCOUPLE **T**

FOR FOOD INDUSTRY AND PHARMA



Name	Stem length	Stem diameter	Tip	Measuring Range	Certifiable range	t <sub>90</sub> sec	Precision class	P/N
<b>3T 320</b> AIR - LIQUID	200 mm	Ø= 3 mm		- 50 ... +350	-40 ... +300	2	1	51000902
<b>3T 415</b> PENETRATION	150 mm	Ø= 4 mm		- 50 ... +350	-40 ... +300	3	1	51000912
<b>3T 215</b> PENETRATION	150 mm	Ø= 2 mm		- 50 ... +350	-40 ... +300	2	1	51000942
<b>3T 520 C</b> CONTACT	200 mm	Ø= 5 mm		- 50 ... +350	-40 ... +300	5	1	51000922
<b>3T 420 A</b> AIR	200 mm	Ø= 4 mm		- 50 ... +250	-40 ... +200	3	1	51000932

### WITHOUT HANDLE - FOR OVENS AND INCUBATORS



<b>3T 210</b> AIR - LIQUID	100 mm	Ø= 2,5 mm		- 50 ... +300	-40... + 300	3	1	51000952
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**3T 210**

## NTC THERMISTOR

FOR FOOD INDUSTRY AND HVAC



Name	Stem length	Stem diameter	Tip	Measuring Range	Certifiable range	t <sub>90</sub> sec	P/N
<b>NT7L</b> AIR - LIQUID	200 mm	Ø= 3 mm		- 50 ... +150	-50 ... +150	30	50011142
<b>NT7P</b> PENETRATION	150 mm	Ø= 4 mm		- 50 ... +150	-50 ... +150	30	50011122

	Temp 70 Vio PT100	Temp 7 Vio PT 100	Temp 7 Vio NTC	Temp 7 Vio K/T
Sensor	PT 100	PT 100	NTC 30K	Type K - T
Measuring range	-200,0 ... +999,9 °C	-200 ... +999 °C	-50,0 ... +150,0 °C	K: -200 ... +1350 °C T: -250 ... +400 °C
Resolution	0,01 °C ( -99,99 ... +99,99 °C) 0,1 °C in the rest of the scale	0,1 °C (-99,9 ... +199,9 °C) 1 °C in the rest of the scale	0,1 °C	0,1 °C (-99,9 ... +199,9 °C) 1 °C in the rest of the scale
Accuracy	±0,03 °C (-99,99 ... +99,99 °C) ±0,1 °C in the rest of the scale	±0,2 °C (-99,9 ... +199,9 °C) ±2 °C in the rest of the scale	±0,2 °C	±0,1% of measure / ±0,4 °C (> -150 °C) ±0,25% of measure / ±1 °C (< -150 °C)
Channels	2	1	1	1
Datalogger	1000 data	-	-	-
Sampling	Manual / automatic 1 min ... 99 h	-	-	-
Stability indication	Yes			
Min/Max function	Yes			
Hold function	Yes			
Working conditions	T: 0 ... +60 °C UR: < 95 %			
Protection class	IP56			
Auto-off	Yes, after 20 minutes (switchable)			
Display	Backlit color high definition LCD display			
Brightness/contrast adjustment	Automatic / Manual	Manual	Manual	Manual
Connections	2x 3 pin connector	1x 3 pin connector	1x RCA connector	1x ANSI connector
Power supply	3 x 1,5V "AA" alkaline			
Battery life	> 550 h			
Weight and dimensions	185 x 85 x 45 mm / 400 g			
P/N	50111082	50111012	50111052	50111032

## Applications

Galvanics, chemical industry, food and beverage, cooling towers and boilers, water and wastewater treatment, HVAC (Head Ventilation Air Conditioning), agriculture and gardening, Mechanical engineering, laboratories and schools.

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