

ENG

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1. Review

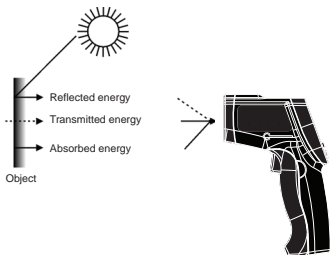
TemPro 550 is IR Thermometer for non-contact temperature measurements at the touch of button. The built-in laser pointer increases target accuracy while the backlight LCD and handy push-buttons combine for convenient, ergonomic operation.

TemPro 550 can be used to measure the temperature of objects' surface that is improper to be measured by traditional (contact) thermometer (such as moving object, the surface with electricity current or the objects which are uneasy to be touched).

2. Measurement considerations

Holding the meter by its handle, point the IR Sensor toward the object whose temperature is to be measured. The meter automatically compensates for temperature deviations from ambient temperature.

Infrared thermometers measure the surface temperature of an object. The unit's optics sense emitted, reflected, and transmitted energy, which is collected and focused onto detector. The unit's electronics translate the information into a temperature reading, which is displayed on the unit. The laser is used for aiming purposes only.



Pic.1

3. Complete set

Thermometer TemPro 550
Battery 9V
Plastic blister
Operating manual

4. Technical data

4.1. Functions

- Rapid detection function
- Precise non-contact measurements
- Built-in laser sighting
- Unique flat surface, modern housing design
- Automatic Data Hold
- Backlight LCD display
- Low battery indicator

4.2. Specifications

IR temperature range	-50° to +550°
Optical resolution, D:S	12:1
Resolution	0.1°
Accuracy	±1,5° at 0<t 550° ±3° at t 0°
Response time	0.5 sec.
Spectral response, um	8 ~ 14
Emissivity	0.95
Backlight	yes
Data hold	yes

Working temperature/relative humidity	0..40° / 10-95% at 30°
Power supply	9V (krona)
Dimensions, mm	175x100x49
Weight, gr	130

WARRANTY DOESN'T EXTEND TO FOLLOWING CASES:

1. If the standard or serial product number will be changed, erased, removed or will be unreadable.
2. Periodic maintenance, repair or changing parts as a result of their normal runout.
3. All adaptations and modifications with the purpose of improvement and expansion of normal sphere of product application, mentioned in the service instruction, without tentative written agreement of the expert provider.
4. Service by anyone other than an authorized service center.
5. Damage to products or parts caused by misuse, including, without limitation, misapplication or negligence of the terms of service instruction.
6. Power supply units, chargers, accessories, wearing parts.
7. Products, damaged from mishandling, faulty adjustment, maintenance with low-quality and non-standard materials, presence of any liquids and foreign objects inside the product.
8. Acts of God and/or actions of third persons.
9. In case of unwarranted repair till the end of warranty period because of damages during the operation of the product, it's transportation and storing, warranty doesn't resume.

Tin:	30-90		0,05
- bright	25	N	0.043...0.064
Permalloy oxidated	20	N	0.11...0.03
Foam plastic	20	N	0.60...0.05
Plastic	20	N	0.68...0.02
Bank sand clean	25...30	N	0.95
Plexiglass	25...30	N	0.95
Rubber soft, grey, rough	24	N	0,86
Mercury clean	0-100	N	0,09-0,12
Ruberoid	20	N	0.93
Granulated sugar	25...30	N	0.97
Lead :	30-260		0,04-0,08
- bright	250	N	0.08
- grey, oxidated	0-200		0.28
- oxidated at heating	200		0,63
Silver:	170-830		0,012-0,046
- clean polished	225...625	N	0.0198-0.0324
Mica :			
- thick layer		N	0.72
- in powder, agglomerated in silicate		N	0.81...0.85
Resin		N	0.79...0.84
Ice	-10		0.80...0.85
Carbon steel:	170-1130		0,06-0,31
- rolled	50	N	0.56

- ground	940...1100	N	0.52...0.61
- with rough surface	50	N	0.95...0.98
- rusty, red	20	N	0.59
- zinked	20	N	0.28
- alloy (8% Ni ; 18% Cr)	500	N	0.35
Stainless steel:			
- polished	25...30	N	0.13
- after sandblast	700	N	0.70
- after rolling	700	N	0.45
- oxidated at 600°C	200...600	N	0.79
- oxidated, rough	40...370	N	0.94...0.97
Glass window			
	25...30	N	0.91
	22...100	N	0.94...0.91
Glass			
	250...1000	N	0.87...0.72
	1100...1500	N	0.70...0.67
Opal glass	20	N	0.96
Table salt technical	25...30	N	0.96
ethyl alcohol	25...30	N	0.89
Broadcloth	20	N	0.98
Textolite	20	N	0.93 0.02
	200	N	0.15
Titanium polished			
	500	N	0.20
	1000	N	0.36
	200	N	0.40
Titanium, oxidated			
	500	N	0.50
	1000	N	0.60
Fabric :			
- asbestos		N	0.78

White china, bright		N	0.70...0.75
Glazed china	22	N	0.92
Fibre	25...30	N	0.93
Fluoroplastic	20	N	0.95 0.02
Raw cotton different humidity	25...30	N	0.93...0.96
Unpolished chrome	38...538	N	0.08...0.26
Polished chrome	50	N	0.08...0.10
Polished chrome	500...1000	N	0.28...0.38
Chromium-nickel	52...1035	N	0.64...0.76
Cement	25...30	N	0.93
Zink:	30-260	N	0,02-0,06
oxidated	30-200-530	N	0,28-0,14-0,11
Cast iron :			
- turned	830...990	N	0.60...0.70
- oxidated at heating	200...600	N	0.64...0.78
- rough, oxidated	40...250	N	0.95
Iron casting	50	N	0.81
Pig iron	1000	N	0.95
Black shellac, bright on metal	21	N	0.82
	0...100	N	0.97...0.93
Cinder	200...300	N	0.89...0.78
	600...1200	N	0.76...0.70
	1400...1800	N	0.69...0.67
Plaster rough,			
lime	10...90	N	0.91
Ebonite		N	0.89

Certificate of acceptance and sale

name and model of the instrument

Corresponds to _____
designation of standard and technical requirements

Data of issue _____

Stamp of quality control department

Price

Sold _____ Date of sale _____
name of commercial establishment

-	,	20	N	0.88...0.93
-	(33%SiO, 64%Al O)	1500	N	0.29
-	,	1000	N	0.46
-	,	1000...1300	N	0.38
-	(80% MgO, 9% Al O)	1500	N	0.39
-	(95% SiO)	1230	N	0.66
		20	N	0.94
		36	N	0.98
			N	0.75...0.80
:				
-	,	100	N	0.92...0.96
-	,		N	0.70...0.80
-	,		N	0.28...0.33
-	,		N	0.65...0.70
-	,	150...315	N	0.35
:				
-	,	40...95	N	0.96...0.98
-	,	25	N	0.88
-	,	40...100	N	0.80...0.95
-	,	23	N	0.906
-		80	N	0.93
-		20	N	0.39
-		100	N	0.92
:				
-		100	N	0.05
-		220-330		0,02
-	- 73.2% Cu, 26.7% Zn	245...355	N	0.028..0.031
-	- 73.2% Cu, 26.7% Zn	200	N	0.03

-	,	22-100	N	
-	,	22	N	0.20
-	,	50...350	N	0.22
-		200...600	N	0.61...0.59
	600°C	-10	N	0.96...0.97
		0	N	0,96
	,	-10	N	0.98
		0	N	0,985
	,	25	N	0.043...0.064
		25...30	N	0,93
	:	200-300-		0,022-0,024-
		500-800		0,05-0,061
-	,	80	N	0.018
-		115	N	0.023
-		22	N	0.072
-		50	N	0.6...0.7
-		30-330-		0,38-0,47-
		520-820		0,59-0,87
-		193-260-	N	0,66-0,78-
		420-800		0,9-0,93
-		200...600	N	0.57...0.55
-		25	N	0.78
		25...30	N	0.96
		25...30	N	0,95
	,	23	N	0.045
	,	20	N	0.37...0.48
	:			

-		50	N	0.65
-	,	500...1000	N	0.71...0.79
-		50...500	N	0.95...0.98
:		30-90		0,05
-		25	N	0.043...0.064
		20	N	0.11...0.03
		20	N	0.60...0.05
		20	N	0.68...0.02
		25...30	N	0.95
		25...30	N	0.95
,	,	24	N	0,86
		0-100	N	0,09-0,12
		20	N	0.93
		25...30	N	0.97
:		30-260		0,04-0,08
-		250	N	0.08
-	,	0-200		0.28
-		200		0,63
:		170-830		0,012-0,046
-		225...625	N	0.0198-0.0324
:				
-			N	0.72
-	,		N	0.81...0.85
			N	0.79...0.84
			-10	0.80...0.85
:		170-1130		0,06-0,31

-		50	N	0.56
-		940...1100	N	0.52...0.61
-		50	N	0.95...0.98
-	,	20	N	0.59
-		20	N	0.28
-	(8% Ni ; 18% Cr)	500	N	0.35
-	:	25...30	N	0.13
-		700	N	0.70
-		700	N	0.45
-	600°C	200...600	N	0.79
-	,	40...370	N	0.94...0.97
		25...30	N	0.91
		22...100	N	0.94...0.91
		250...1000	N	0.87...0.72
		1100...1500	N	0.70...0.67
		20	N	0.96
		25...30	N	0.96
		25...30	N	0.89
		20	N	0.98
		20	N	0.93 0.02
		200	N	0.15
		500	N	0.20
		1000	N	0.36
		200	N	0.40
	,	500	N	0.50
		1000	N	0.60

:			
-		N	0.78
-	25...30	N	0.92...0.96
	25...30	N	0.95
,		N	0.70...0.75
	22	N	0.92
	25...30	N	0.93
	20	N	0.95 0.02
-	25...30	N	0.93...0.96
	38...538	N	0.08...0.26
	50	N	0.08...0.10
	500...1000	N	0.28...0.38
	52...1035	N	0.64...0.76
	25...30	N	0.93
:	30-260	N	0,02-0,06
	30-200-530	N	0,28-0,14-0,11
:			
-	830...990	N	0.60...0.70
-	200...600	N	0.64...0.78
-	40...250	N	0.95
	50	N	0.81
	1000	N	0.95
,	21	N	0.82
	0...100	N	0.97...0.93
	200...300	N	0.89...0.78
	600...1200	N	0.76...0.70
	1400...1800	N	0.69...0.67

10...90	N	0.91
	N	0.89
20	N	0.90
25...30	N	0.95

1. N -
2. -
- 3.
- 4.

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