

IR THERMOMETERS



DIT-130
DIT-500



Temperature meters operating in the infrared are used to determine the temperature of the surface of the item. The optical system of the device detects the emitted, reflected and sent energy, which is collected and concentrated on the detector. Electronic system converts optical data into temperature value. In order to increase accuracy the laser pointer is built in the device.



Sonel S.A.
ul. Wokulskiego 11
58-100 Świdnica, PL
tel. +48 74 85 83 860
fax +48 74 85 83 809

export@sonel.pl
www.sonel.pl

DIT-500 and DIT-130

Temperature meters operating in the infrared are used to determine the temperature of the surface of the item. The optical system of the device detects the emitted, reflected and sent energy, which is collected and concentrated on the detector. Electronic system converts optical data into temperature value. In order to increase accuracy the laser pointer is built in the device.

The most important features of instruments are:

- Precise non-contact temperature measurement.
- Type K temperature measurement.
- Modern casing design.
- „DATA HOLD” function, for holding measured values.
- „AUTO-OFF” function.
- °C/°F switch.
- Emissivity digitally adjustable from 0,10 to 1,00.
- Temperature display maximum, minimum, average and difference.
- Backlit LCD.
- Automatic range selection.
- Resolution 0,1°C (0,1°F).
- Trigger lock.
- High and low alarm.

Additionally DIT-500:

- Rapid detection of temperature changes (below 150ms).
- Dual laser pointer.
- Memory (LOG) of 100 measurement results.
- Transmit data to PC with USB.

Additionally DIT-130:

- Memory (LOG) of 20 measurement results.

Rated operational conditions:	
- operating temperature	0...+50°C
- storage temperature	-20...+60°C
- humidity	10...90%
Other technical data:	
- display LCD	segment with a backlight
- spectral response	8~14µm
- emissivity	digitally adjustable from 0,10 to 1,0
- polarity	automatic, (-) sign for negative polarity
- diode laser	output <1mW, wave length 630~670nm, class 2 laser product
- power supply	9V battery, NEDA 1604A or IEC 6LR61
„CE” - comply with EMC	

DIT-130:	
- over range indication	LCD will show „-OL”, „0L”
- response time	below 1 second
- weight	290 g
- dimensions	190 x 111 x 48 mm

DIT-500:	
- over range indication	LCD will show „----”
- response time	150 ms
- weight	350 g
- dimensions	230 x 155 x 54 mm

IR temperature range (DIT-130)

IR temperature range	D:S	Resolution	Accuracy	
			°C	°F
-32...380°C -25,6...716°F	13:1	0,1°C	-32...-20°C	±5°C
			-25,6...-4°F	±9°F
		0,1°F	-20...-200°C	±(1,5% m.v. + 2°C)
			-4...392°F	±(1,5% m.v. + 3,6°F)
200...380°C 392...716°F			±(2,0% m.v. + 2°C)	
			±(2,0% m.v. + 3,6°F)	

IR temperature range (DIT-500)

IR temperature range	D:S	Resolution	Accuracy	
			°C	°F
-50...999,9°C -58...999,9°F		0,1°C	-50...20°C	±2,5°C
		0,1°F	-58...68°F	±4,5°F
1000...1600°C 1000...2912°F	50:1	1°C	20...400°C	±(1,0% m.v. + 1°C)
			68...752°F	±(1,0% m.v. + 1,8°F)
		1°F	400...800°C	±(1,5% m.v. + 2°C)
			752...1472°F	±(1,5% m.v. + 3,6°F)
		800...1600°C	±2,5% m.v.	
		1472...2912°F		

Type K temperature range

Type K temperature range	Resolution	Accuracy
-50...999,9°C	0,1°C	±(1,5% m.v. + 3°C)
-58...999,9°F	0,1°F	±(1,5% m.v. + 5°F)
1000...1370°C	1°C	±(1,5% m.v. + 2°C)
1000...2498°F	1°F	±(1,5% m.v. + 3,6°F)

„D:S” - Distance (D) to Spot Size (S)

„m.v.” - measured value

Standard accessories of the meter DIT-500:

- 9V battery (1 pcs.),
- USB cable,
- PC software,
- K type temperature probe,
- mini tripod,
- carrying case,
- operating manual,

WAPRZUSB

WASONTEMK
WAPOZSTATYW

Standard accessories of the meter DIT-130:

- 9V battery (1 pcs.),
- carrying case,
- operating manual,
- K type temperature probe,

WASONTEMK