



PCE Americas Inc.  
711 Commerce Way  
Suite 8  
Jupiter  
FL-33458  
USA  
From outside US: +1  
Tel: (561) 320-9162  
Fax: (561) 320-9176  
info@pce-americas.com

PCE Instruments UK Ltd.  
Units 12/13  
Southpoint Business Park  
Ensign way  
Hampshire / Southampton  
United Kingdom, SO31 4RF  
From outside UK: +44  
Tel: (0) 2380 98703 0  
Fax: (0) 2380 98703 9  
info@pce-instruments.com

[www.pce-instruments.com/english](http://www.pce-instruments.com/english)  
[www.pce-instruments.com](http://www.pce-instruments.com)

## Technical HVAC Meter PCE-779N

### Thermometer PCE-779N

**Compact infrared thermometer to measure surface temperatures /  
incl. thermocouple measurement / adjustable emissivity / difference measuring function /  
tripod thread / MIN, MAX and alarm function / LED light**

The infrared thermometer PCE-779N can be used for quick temperature measurements. This can be done in two different ways: either without contact or by means of a thermocouple. The infrared thermometer is suitable for nearly all surfaces. Since the infrared thermometer allows non-contacting measurement, even high temperatures can be measured from a safe distance. By means of the integrated dual laser of the infrared thermometer PCE-779N, the user can target the measuring spot very precisely.

The infrared thermometer has a variety of functions, including the MAX and MIN functions as well as the average and the difference function, which makes the infrared thermometer useful for many applications, including contacting, but also non-contacting measurements. The infrared thermometer is typically used for e. g. food monitoring, different hygiene-related controls, road construction, switch cabinet and production monitoring as well as for measuring motor temperatures.

- dual laser for targeting
- additional thermocouple measurement
- easy handling
- large display
- difference value measurement
- average measurement
- MIN / MAX value measurement
- alarm function

## Technical specifications on the infrared thermometer PCE-779N

	Infrared measurement	Thermocouple measurement
Measurement range	-60 ... +760 °C	-64 ... +1400 °C
Accuracy (Tobj=15 ... 35 °C, Tenv= 25 °C)	±1 °C	±1 % of reading or ±1 °C (higher value applies) (measurement below Tenv= 23 ±6 °C)
Accuracy (Tenv= 23 ±3 °C)	Tobj = - 60 ... 0 ±(2+0.05/°C) °C, Tobj= 0 ... 760: ±2 % of reading or ±2 °C (higher value applies)	±1 % of reading or ±1 °C (higher value applies) (measurement below Tenv= 23 ±6 °C)
Optical resolution	30 : 1	
Response time	1 s	
Emissivity	0.95 (default) 0.1 ... 1.0 (adjustable)	
Resolution	0.1 °C at -83.2 ... +999.9 °C, otherwise 1 °C	
Functions	MAX, MIN, difference, average	
Display	LCD with backlight	
Power supply	2 x AAA (Alkaline)	
Battery life	without laser: at least 30 h with laser and LED: at least 3 h	
Operating conditions	0 ... +50 °C	
Laser	class 2	
Weight	256 g (incl. batteries)	
Dimensions	119.2 x 47.5 x 171.8 mm	

### Note:

The technical specifications include the abbreviations Tobj and Tenv.

**Tobj:** object temperature

**TUmg:** environmental temperature

### Delivery content of the infrared thermometer PCE-779N

1 x infrared thermometer PCE-779N, 1 x thermocouple (max. 200 °C), 2 x battery (AAA),

1 x manual