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# MI-PE 140/39

Highly accurate, fully digital, fast

Special version of MI-PE 140 with a spectral range of 3.9  $\mu\text{m}$ .  
(addendum to MI-PE140 data sheet)

- ◆ Temperature ranges between 20 ... 1450°C
- ◆ Measurement through flames and combustion gas without influencing the measurement
- ◆ Penetrating measurement into glass
- ◆ Reduction of emissivity errors



#### Technical data (different from MI-PE 140):

Temperature range: 20 ... 700°C (MB 7)  
60 ... 1200°C (MB 12)  
300 ... 1450°C (MB 14.5)

Spectral range: 3.9  $\mu\text{m}$

#### Reference numbers:

Temperature range	With laser targeting light	With view finder	Optics 1-PE		Optics 2-PE		Optics 3-PE	
			Meas. distance a	Spot size $\varnothing$ M	Meas. distance a	Spot size $\varnothing$ M	Meas. distance a	Spot size $\varnothing$ M
MB 7	5 875 840	5 875 850	105 mm	0.7 mm	200 mm	1.3 mm	370 mm	2.4 mm
MB 12	5 875 760	5 875 770	120 mm	0.9 mm	280 mm	1.9 mm	1000 mm	6.8 mm
MB 14.5	5 875 860	5 875 870	155 mm	1.2 mm	420 mm	3.2 mm	4300 mm	33 mm

The MI-PE 140/39 is a special pyrometer for non-contact temperature measurement of metal parts in flame heated furnaces. Like the basic MI-PE 140, the MI-PE 140/39 is a highly accurate digital pyrometer. The narrow spectral range of 3.9  $\mu\text{m}$  avoids the influence of humidity and

CO<sub>2</sub> and enables a correct measurement through flames and combustion gases. Also humidity and CO<sub>2</sub> do not have any influence on measurements with long measuring distances. Another application is the measurement of glass if a small penetration

into the glass is necessary (e.g. glass drop). Measurement errors caused by partially cooled down surfaces can be avoided. For optimal match of the instrument to the application 3 different focusable optics with extremely small spot sizes are available.

Specifications are subject to change without notice