



Measurement and analysis software SAPHIR

Efficient workflows are essential to successful business operations, and so is smart quality control. The choice of the right machinery with the right software is a key determinant in this regard because nothing works without top-notch inspection equipment! Since "Schneider" is the German word for "tailor", you can rightly conclude that SAPHIR is a truly "tailor-made" measuring software that leaves nothing to be desired: from "A" as in "axis alignment" to "Z" as in "zero-point administration" – SAPHIR is a valuable resource with invaluable features. For further information about this technological gem, please request our free "SAPHIR" brochure.

Technical Specifications of the PMS Series

Model		PMS 200	PMS 300	PMS 400	PMS 500	PMS 600	PMS 700
Measurement range		Other measurement ranges are available upon request					
X	mm	200	300	400	500	600	700
Y	mm	200	300	400	500	600	700
Z	mm	200	300	300	300	300	300
Lens with fixed focal length		telecentric					
Magnification		1.0x	1.5x	3x	5x	10x	
Field of view	mm	6 x 4.5	4 x 3	2 x 1.5	1.2 x 0.9	0.6 x 0.45	
Working distance	mm	190	80	80	50	24	
Lens with zoom		telecentric					
Magnification		0.5x bis 7x					
Working distance	mm	86					
Resolution	mm	0.001					
Travel speed max.	mm/s	100					
Acceleration max.	mm/s²	400					
Positioning accuracy	mm	0.0001					
Workpiece weight max.							
on glass plate	kg	20					
with granite stage support	kg	200					
Length measurement error ¹⁾		Measuring length L in mm					
optical (1D), DIN EN ISO 10360-7 ²⁾		$E_{UX, MPE} = (1.3 + L/300 \text{ mm})\mu\text{m}$, $E_{UY, MPE} = (1.3 + L/300 \text{ mm})\mu\text{m}$					
optical (2D), DIN EN ISO 10360-7 ²⁾		$E_{UXY, MPE} = (2.0 + L/300 \text{ mm})\mu\text{m}$					
tactile (1D), DIN EN ISO 10360-2 ³⁾		$E_{OX, MPE} E_{OY, MPE} = (1.3 + L/300 \text{ mm})\mu\text{m}$					
tactile (2D), DIN EN ISO 10360-2 ³⁾		$E_{O, MPE} = (2.0 + L/300 \text{ mm})\mu\text{m}$					
tactile (3D), DIN EN ISO 10360-2 ³⁾		$E_{O, MPE} = (2.8 + L/300 \text{ mm})\mu\text{m}$					
Dimensions	mm	W 750	W 820	W 950	W 1100	W 1210	W 1310
		D 850	D 1040	D 1190	D 1500	D 1730	D 1930
		H 1950	H 2060	H 1960	H 2110	H 1960	H 1960
Switch cabinet	mm	–				800 x 800	
Workstation table 130	mm	–				1300 x 900	
Weight	kg	700	900	1500	1900	2600	2800
Electric power supply		220-240 VAC, 50-60Hz, 1kW					

¹⁾ Prerequisites: admissible ambient conditions 20°C ± 1K, Temperature gradient $\Delta_{th} = 0.5 \text{ K/h}$, $\Delta_{td} = 4.0 \text{ K/d}$

²⁾ $\beta = \text{Magnification factor} = 1.5$ Δ lens 1.5x (field of view 4x3 mm)

³⁾ Applies to optional equipment with TP200 or SP25, standard probing system equipped with a straight probe length 50 mm, stylus ball $\varnothing 4 \text{ mm}$