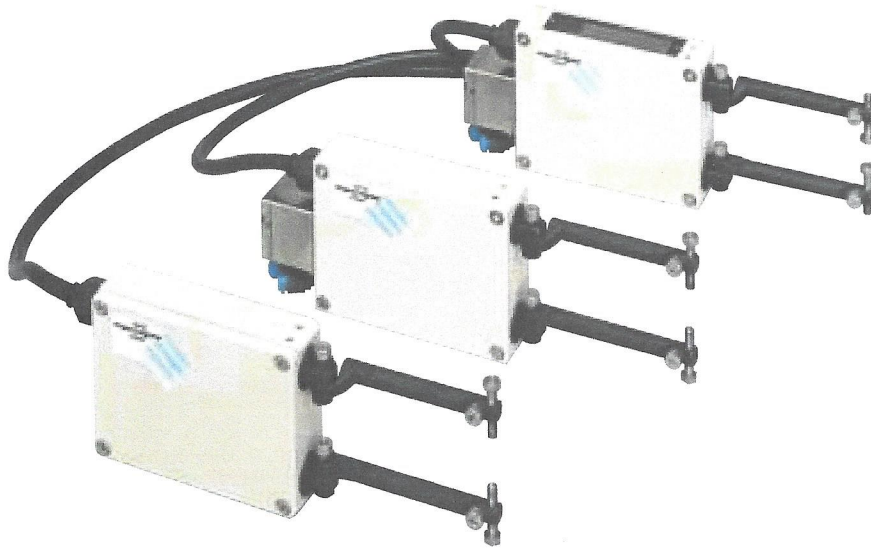


PULCOM Super Σ

Ultra Precision Measuring Head



Configurations

- ▶ DELCOM 120A
- ▶ PULCOM V4
- ▶ PULCOM V6
- ▶ PULCOM V7
- ▶ PULCOM V8
- ▶ PULCOM V10A

Features

0.1 μm In-Line Precision

The PULCOM Super Σ achieves repeatability accuracy of 0.1 μm (25 times).

Resistant to Temperature Change

The change in the measured value is 0.5 μm or less when the ambient temperature varies by 10°C.

Extended Idling Not Required

The change in the measured values 10 minutes after the power is turned on is 0.1 μm or less.

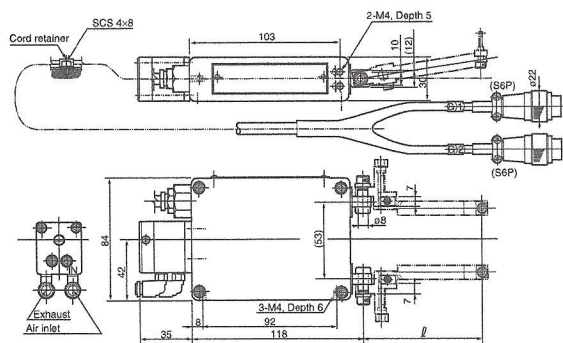
Specifications

●Outer Diameter/Outer Width

Model			Super Σ	Super Σ -OD-AR	Super Σ -ID-AR
Main applications			Cylindrical outer diameter	Cylindrical outer diameter, outer width	Cylindrical outer diameter, outer width
Model	Vertical surface	ℓ =42mm	E-TS-7151	E-TS-7161	E-TS-7181
		ℓ =82mm	E-TS-7152	E-TS-7162	E-TS-7182
	Horizontal surface	ℓ =42mm	E-TS-7155	E-TS-7165	E-TS-7185
		ℓ =82mm	E-TS-7156	E-TS-7166	E-TS-7186
Measuring range	(Post in parentheses)		$\phi 8 - \phi 65\text{mm}$	$\phi 88 - \phi 65 (\phi 18 - \phi 65)\text{ mm}$	$\phi 3 - \phi 65\text{mm}$
Stroke	Finger length	ℓ =42mm	1.5 mm (one side)		1.5 mm (one side)
	Finger length	ℓ =82mm	2.4 mm (one side)		2.4 mm (one side)
Front travel	Finger length	ℓ =42mm	0.12 – 0.15 mm		0.12 – 0.15 mm
	Finger length	ℓ =82mm	0.19 – 0.24 mm		0.19 – 0.24 mm
Repeatability			0.1 μm	0.2 μm	0.2 μm
Measuring force			0.75 $\pm 0.15\text{ N}$		0.75 $\pm 0.15\text{ N}$
Retract air source			–	0.3 – 0.5 MPa	0.3 – 0.5 MPa
Head weight			Approx. 1.3 kg		
Waterproof standard			IP67 compliant		

Abbreviations ℓ : Finger length, Vertical surface: Vertical surface used as standard for mounting, Horizontal surface: Horizontal surface used as standard for mounting (horizontally oriented), Post: Post process measurements

E-TS-7151, 7152, 7155, 7156



The contacts should be retracted when approaching the workpiece. At other times, the unit should be in the retract release (measuring) status.

Note 2: Secure the cable between the measuring head and the cord retainer so that it is not moved by external force.

Product Code	Product Name
0948021	PULCOM Super Σ -ID-R (E-TS-7181-P3)
0948022	PULCOM Super Σ -ID-R (E-TS-7181-P6)
0948023	PULCOM Super Σ -ID-R (E-TS-7182-P3)
0948024	PULCOM Super Σ -ID-R (E-TS-7182-P6)
0948025	PULCOM Super Σ -ID-R (E-TS-7185-P3)
0948026	PULCOM Super Σ -ID-R (E-TS-7185-P6)
0948027	PULCOM Super Σ -ID-R (E-TS-7186-P3)
0948028	PULCOM Super Σ -ID-R (E-TS-7186-P6)
0948030	PULCOM Super Σ -ID-R (E-TS-7182-N3)
0948031	PULCOM Super Σ -ID-R (E-TS-7182-N6)
0948032	PULCOM Super Σ -ID-R (E-TS-7186-N3)
0948033	PULCOM Super Σ -ID-R (E-TS-7186-N6)