

TMA 402 F3 Hyperion® Polymer Edition

Furnace	IC-furnace: -70°C to 450°C using mechanical cooling
Heating rates	0.001 K/min to 30 K/min
Measuring ranges/ Δl resolution	<ul style="list-style-type: none"> ▪ 500 μm / 0.125 nm ▪ 5000 μm (± 2500 μm) / 1.25 nm
Force and displacement	Simultaneous measurement of force and displacement signal
Force range (load at sample)	0.001 N to 3 N without using additional weights
Force resolution	< 0.01 mN
Interchangeable sample holder systems	Fused silica, up to 450°C
Sample dimensions	<ul style="list-style-type: none"> ▪ Expansion/penetration: Length: 30 mm max.; sample holder Ø 8 mm ▪ Tension: Length: 30 mm max.; width: 6 mm, thickness: 1 mm ▪ 3-point bending: Length: 10 mm max.; width: 5 mm
Atmospheres	1 mass flow controller (MFC, 2 nd independent MFC optional), gas flow rate 0 to 250 ml/min (software-controlled), inert, oxidizing, reducing, vacuum (10 ⁻⁴ mbar)
Various accessories	Spacers, crucibles and special wax containers