

All stainless steel gas actuated thermometer

Model S5500

According EN 13190

Nominal size 100 mm or 160 mm

With or without capillary/contacts

Accuracy: Class 1 dry

Class 2 liquid filled

Features

- Rugged stainless steel construction
- Fast response
- Protection IP65
- High repeatability and small hysteresis
- Dry or liquid filled
- Rigid stem or bulb with capillary

Ranges

-200 ... 50 °C up to 0 ... 800 °C

-330 ... 120 °F up to 50 ... 1450 °F

Applications

Chemical and petrochemical industry

Machine and apparatus construction

Food and beverage industry

Pulp and paper industry



Technical specification	Rigid stem		With capillary																																														
	100	160	100	160																																													
Dial size in mm																																																	
Construction	Cylindrical case with bayonet ring																																																
Measuring principle	Inert gas actuated																																																
Range in °C	0/60 0/80 0/100 0/120 0/160 0/200 0/250 0/300 0/400 0/500 0/700 0/800 -10/50 -10/110 -20/40 -20/100 -20/120 -20/180 -30/50 -30/70 -30/170 -40/40 -40/60 -40/160 -50/50 -60/40 -80/40 -100/50 -120/40 -200/50																																																
Overtemperature limit	Ranges in °F and dual scales on request Max. 130 % F.S. but max. 800 °C, optional 210 % F.S. but max. 800 °C																																																
Stem or bulb diameter	6 mm, 8 mm, 9 mm, 10 mm, others on request																																																
Lengths	55 ... 4000 mm, other length on request, min. length depends on bulb and range																																																
Capillary length	N.A.		Max. 100 m																																														
Process connection	Plain G ½ B male, G ¾ B male, G 1 B male according ISO 228-1, ½ NPT male, ¾ NPT male, 1 NPT male according ANSI/ASME B1.20.1, M20x1,5 male, M24x1,5 male, M27x2 male according ISO 68-1, Others on request Fixed, adjustable union or with swivel nut																																																
Connection location	Back, lower, knee joint bendable (180°), knee joint bendable (360°)																																																
Material	<table border="0"> <tr> <td>Connection</td> <td>Stainless steel 304 (1.4301)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stem</td> <td>Stainless steel 321 (1.4541)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Case/ring</td> <td>Stainless steel 304 (1.4301), optional 316 (1.4401)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Capillary</td> <td></td> <td></td> <td>Stainless steel 321 (1.4541)</td> <td></td> </tr> <tr> <td>Armor</td> <td></td> <td></td> <td>Flexible, 304 (1.4301), or 316 (1.4401)</td> <td>optional PVC covered</td> </tr> <tr> <td>Window</td> <td colspan="4">Instrument glass, optional laminated safety glass or acrylic glass</td> </tr> <tr> <td>Dial</td> <td colspan="4">Aluminum, black markings on white background</td> </tr> <tr> <td>Pointer</td> <td colspan="4">Aluminum, black, optional micrometer pointer or maximum pointer</td> </tr> <tr> <td>Movement</td> <td colspan="4">Stainless steel 304/303 (1.4301/1.4305)</td> </tr> </table>				Connection	Stainless steel 304 (1.4301)				Stem	Stainless steel 321 (1.4541)				Case/ring	Stainless steel 304 (1.4301), optional 316 (1.4401)				Capillary			Stainless steel 321 (1.4541)		Armor			Flexible, 304 (1.4301), or 316 (1.4401)	optional PVC covered	Window	Instrument glass, optional laminated safety glass or acrylic glass				Dial	Aluminum, black markings on white background				Pointer	Aluminum, black, optional micrometer pointer or maximum pointer				Movement	Stainless steel 304/303 (1.4301/1.4305)			
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Accuracy	Class 1 (dry), Class 2 (liquid filled) according to EN 13190																																																
Zero adjustment	±6 % externally																																																
Protection according EN 60 529/IEC 529	IP65																																																
Filling liquids	Glycerin, silicone																																																
Weight dry/filled in kg	0,8/1,0 (stem length 100 mm)	1,2/3,0 (stem length 100 mm)	1,0/1,2 (stem length 100 mm, capillary 1,5 m)	1,4/3,2 (stem length 100 mm, capillary 1,5 m)																																													
Accessories, options	Thermowells, dual scales, magnet spring- or inductive contacts, built in microswitch 1 or 2 SPDT, calibration certification																																																

