



GÜNTHER GmbH has been a supplier of Thermocouples for over 40 years to the following sectors of the glass industry:

- Container Glass
- Fibreglass
- Sheet Glass
- Glass Wool
- Dinnerware Glass
- Dinnerware Glass
- Medical Glass

Further technical information for this product line is available on our website:

http://www.guenther.eu/en/products/thermocouples/08-tmp/thermocouples-with-precious-metal-protective-sleeves

08-TMP Thermocouple Assemblies with Noble Metal Protective Tube

Straight line Thermocouple Assemblies with Noble Metal Protective Tube (08-TMP) are used in the glass industry for temperature measurement in glass melting. The applied protection tubes consist of alloyed noble metals. In order to meet the extreme environment conditions, only high grade materials are used in production.

A large selection of various dimensions and platinum alloys are available from stock in order to ensure fast delivery times.

Aside from alloying with other metals such as iridium and rhodium, we offer dispersion-hardened protection tubes and platinum coated ceramic pipes.

Thermocouples are available as required, in single, double or triple element version.

Also, GÜNTHER GmbH will deliver bubbler pipes or glass level probes in various versions according to customer specifications.

Thermoelectric voltages and tolerances are pursuant to DIN EN 60584, class 1 for thermocouple types S and R, class 2 for thermocouple type B.

Operation temperature

for platinum-rhodium/platinum thermocouples

Туре	Diameter	Maximum Temperature	
S	0,35 mm	1350 °C	
S	0,50 mm	1600 °C	
R	0,35 mm	1350 °C	
R	0,50 mm	1600 °C	
В	0,35 mm	1600 °C	
В	0,50 mm	1800 °C	



1 Connection Head

Α	В	
AUS	BUS	
AUZ	BUZ	
AUZH	BUZH	
AUSH	BBK	

2 Process Connector (detachable)

Flange
Threaded Socket
Flange / Counter Flange

3 Protection Tube (Materials)

C610	
C799	
C530	

4 Inner Tube

C610	TEP
C799 (Gas-Tight)	Aluminium Oxide

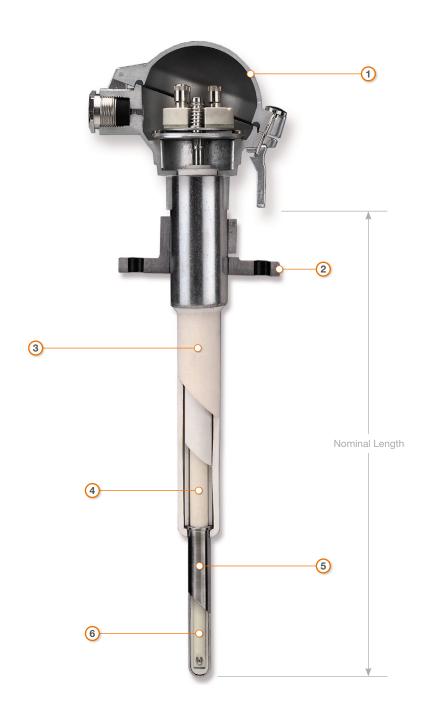
5 Noble Metal Protection Tube

PtRh90/10	9,1 x 0,3 mm
PtRh90/10	9,1 x 0,5 mm
PtRh90/10	6,5 x 0,5 mm
PtRh90/10	9,0 x 0,4 mm
PtRh85/15	7,3 x 0,4 mm
PtRh80/20	9,1 x 0,5 mm
PtRh90/10	9,0 x 0,5 mm

6 Thermocouple

Type R	PtRh13-Pt
Type S	PtRh10-Pt
Type B	PtRh30-PtRh6

Example of a common implementation in this product line



Individual Solutions such as, for example materials, process connectors, accessories, etc.not listed here, are often viable.

Please contact us for further information!

