



Our dual expertise in the technologies of Temperature Sensing and PTFE Processing enables us to produce a range of fully encapsulated, PTFE Temperature Probes which combine the outstanding properties of PTFE with well-proven thermometric techniques.

- **Outstanding chemical resistance**
- **No contamination of working media**
- **A wide range of operating temperature and tolerances**
- **Almost any shape or size**
- **Give reduced down times and replacements**
- **Can eliminate thermowells**

We offer a complete custom manufacturing service for PTFE Temperature Probes to meet your exact requirements.

## PLATINUM RESISTANCE PROBES

COWIE® Platinum Resistance Temperature Probes combine the outstanding properties of PTFE with the reliability and accuracy of Platinum Resistance thermometry.

- Inert and Non Contaminating
- -180°C to +280°C
- Pressure Resistant

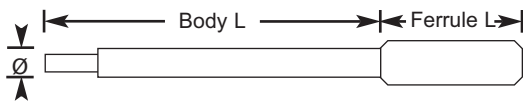
All components are fully encapsulated in pure PTFE. The Body has a stainless steel core for rigidity but can be bent. With push-on ferrule.

**Sensor:** PRT100 Class A. TCR = 3850 ppm/°C.

**Cable:** 4 Wire; 2 Red, 2 White.  
PFA insulated, white PFA oversheath.  
1 metre of cable fused to body.  
Option to increase cable length.

**Response:** 50%, 6-14 seconds.

Supplied without plug. Special plugs on request.



A COWIE® Original Design

Ref No.	Body $\varnothing$ (mm)	Body L (mm)	Ferrule L (mm)
500.106.1	6	100	35
.206.1	6	200	40
.100.1	7	100	35
.200.1	7	200	40
.307.1	7	300	40
.208.1	8	200	40
.300.1	8	300	40
.400.1	8	400	50
.500.1	9	500	60
.600.1	9	600	60
.700.1	9	700	45
.900.1	9	900	45

For extra cable put total cable length in metres after Reference No.e.g. 500.100.1.5 for 5 metres.

## TOTAL IMMERSION

Designed for total immersion, suitable for use in autoclaves and most corrosive liquids.

**Sensor:** PRT100 Class A

**Cable:** 4 Core PFA insulated with white PFA over sheath. 1 metre of cable fused to body.  
Option to increase cable length.

Supplied without plug.

Ref No.	Body $\varnothing$ (mm)	Body L (mm)
500.050.1	5	50

For extra cable put total cable length in metres after Reference. e.g. 500.050.1.6 for 6 metres.



## THERMOCOUPLE PROBES TYPE K



A COWIE® Original Design

COWIE® Thermocouples combine the outstanding properties of PTFE with the reliability of Thermocouple thermometry.

- Inert and Non Contaminating
- -180°C to +280°C
- Pressure Resistant

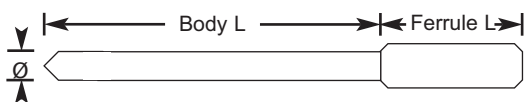
All components are fully encapsulated in pure PTFE. The body has a stainless steel core for rigidity but can be bent. With push-on ferrule.

**Sensor:** Type K Thermocouple

**Cable:** PFA insulated with PFA oversheath.  
1 metre of cable fused to body.  
Option to increase cable length.  
International Colours:  
Cover: Green, +ve Green, -ve White.

**Response:** 50%, 6-14 seconds.

Supplied with miniplug.



Ref No.	Body Ø(mm)	Body L (mm)	Ferrule L (mm)
600.106.1	6	100	35
.206.1	6	200	40
.101.1	7	100	35
.201.1	7	200	40
.307.1	7	300	40
.208.1	8	200	40
.301.1	8	300	40
.401.1	8	400	50
.501.1	9	500	60
.601.1	9	600	60
.701.1	9	700	45
.901.1	9	900	45

For extra cable put total cable length in metres after Reference No.e.g. 600.101.1.5 for 5 metres.

## CUSTOM TEMPERATURE PROBES



We custom manufacture PTFE temperature probes of every description and in any quantity to your exact specification.

For further information on Custom PTFE Temperature Probes please email us at [enquiries@cowie.com](mailto:enquiries@cowie.com) with your product and quantity requirements.

## PLATINUM RESISTANCE BAFFLE PROBES

The dual purpose Platinum Resistance Baffle Probe (PRT100) is for use in reaction systems to increase agitation and promote thorough mixing whilst also acting as a temperature probe. All components are fully encapsulated in PTFE to ensure purity and chemical resistance and have a stainless steel core for rigidity.

**Sensor:** PRT100 Class A

**Cable:** 4 Wire; 2 Red, 2 White.  
PFA insulated, white PFA oversheath.  
1 metre of cable fused to body.  
Option to increase cable length.

Supplied without plug.

Ref No.	Shaft Ø (mm)	Shaft L (mm)	Baffle WxDxL (mm)	Total L (mm)
PC707.508.150.1	8	150	16 x 12 x 150	300
.508.200.1	8	200	16 x 12 x 150	350
.508.250.1	8	250	16 x 12 x 150	400
.512.150.1	12	150	20 x 15 x 200	350
.512.200.1	12	200	20 x 15 x 200	400
.512.250.1	12	250	20 x 15 x 200	450
.516.150.1	16	150	35 x 22 x 250	400
.516.200.1	16	200	35 x 22 x 250	450
.516.250.1	16	250	35 x 22 x 250	500



## THERMOCOUPLE BAFFLE PROBES

The dual purpose Thermocouple Baffle Probe (Type K) is for use in reaction systems to increase agitation and promote thorough mixing whilst also acting as a temperature probe. All components are fully encapsulated in PTFE to ensure purity and chemical resistance and have a stainless steel core for rigidity.

**Sensor:** Type K Thermocouple

**Cable:** PFA insulated with PFA oversheath.  
1 metre of cable fused to body.  
Option to increase cable length.  
International Colours: Cover: Green,  
+ve Green, -ve White

Supplied with miniplug not fitted for ease of assembly.

Ref No.	Shaft Ø (mm)	Shaft L (mm)	Baffle WxDxL (mm)	Total L (mm)
PC707.608.150.1	8	150	16 x 12 x 150	300
.608.200.1	8	200	16 x 12 x 150	350
.608.250.1	8	250	16 x 12 x 150	400
.612.150.1	12	150	20 x 15 x 200	350
.612.200.1	12	200	20 x 15 x 200	400
.612.250.1	12	250	20 x 15 x 200	450
.616.150.1	16	150	35 x 22 x 250	400
.616.200.1	16	200	35 x 22 x 250	450
.616.250.1	16	250	35 x 22 x 250	500

