Electrothermal

Cole-Parmer®

CONTROLLERS

Specifications of temperature probes for use with the MC810B Digital controller

Introduction

The MC810B Digital Heating Controller provides a convenient means of temperature control, utilising a digital display and microprocessors to provide easy operation and accurate readings. Temperature sensing is performed by a plug-in platinum resistance probe. The MC810B is supplied with a PTFE-covered platinum resistance probe (AZ6705) for measurements up to 250°C and alternative probes are available for measurements up to 800°C. The sections below give the specifications of each of the available temperature probes.

Summary table

Part code	Maximum temperature	Sensor type	Material	Dimensions (ø x length)
AZ6705	250°C	PT100, 4-wire, Class A	Stainless steel with PTFE sleeving	5.0 x 260mm
AZ9046	250°C	PT100, 2-wire, Class A	Uncoated stainless steel	6.0 x 380mm
AZ6706	400°C	PT100, 2-wire, Class A	Uncoated stainless steel	5.0 x 280mm
AZ6741	800°C	PT100, 2-wire, Class B	Stainless steel with porcelain sheath	7.0 x 140mm

Class A sensors = +/- 0.15°C

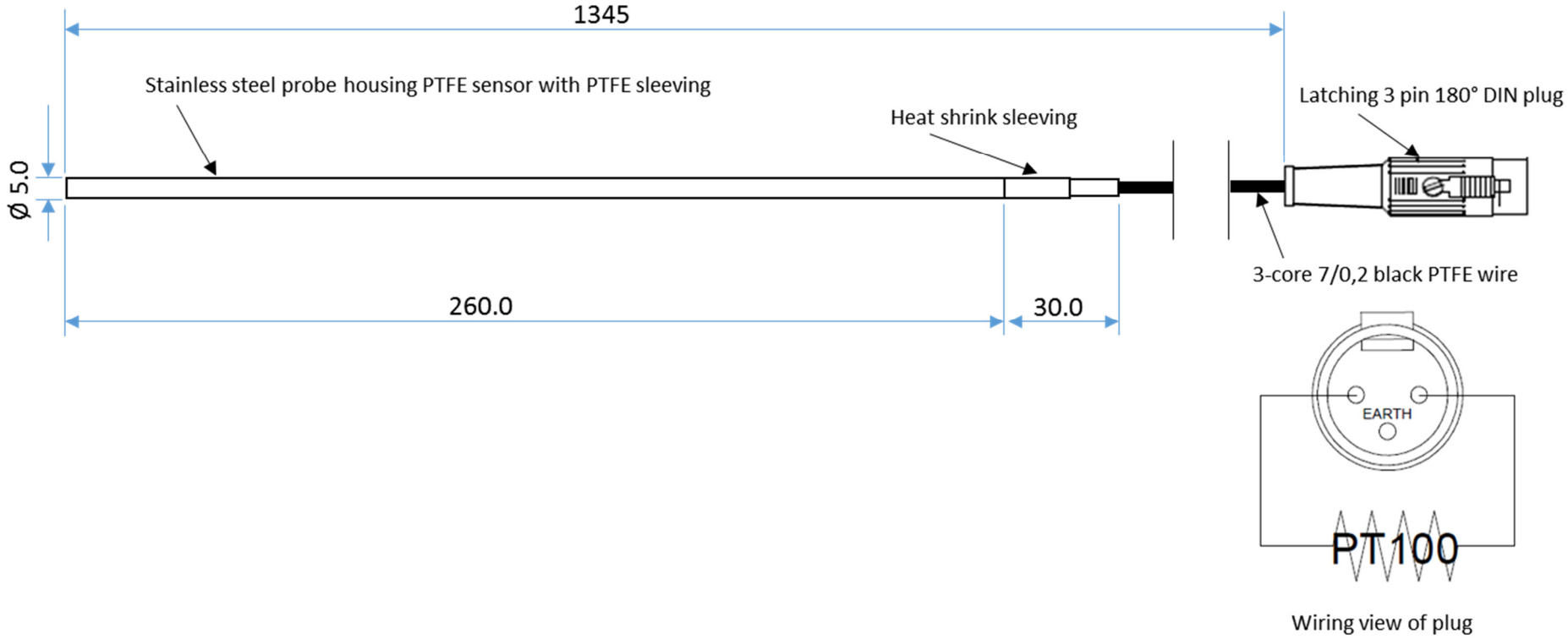
Class B sensors = +/- 0.3°C

Please note these figures are for the accuracy of the sensors only. When used as part of a system (i.e. When connected to the MC810B) the accuracy of the 'system' will most likely be slightly less.

Specifications of temperature probes

- **AZ6705**

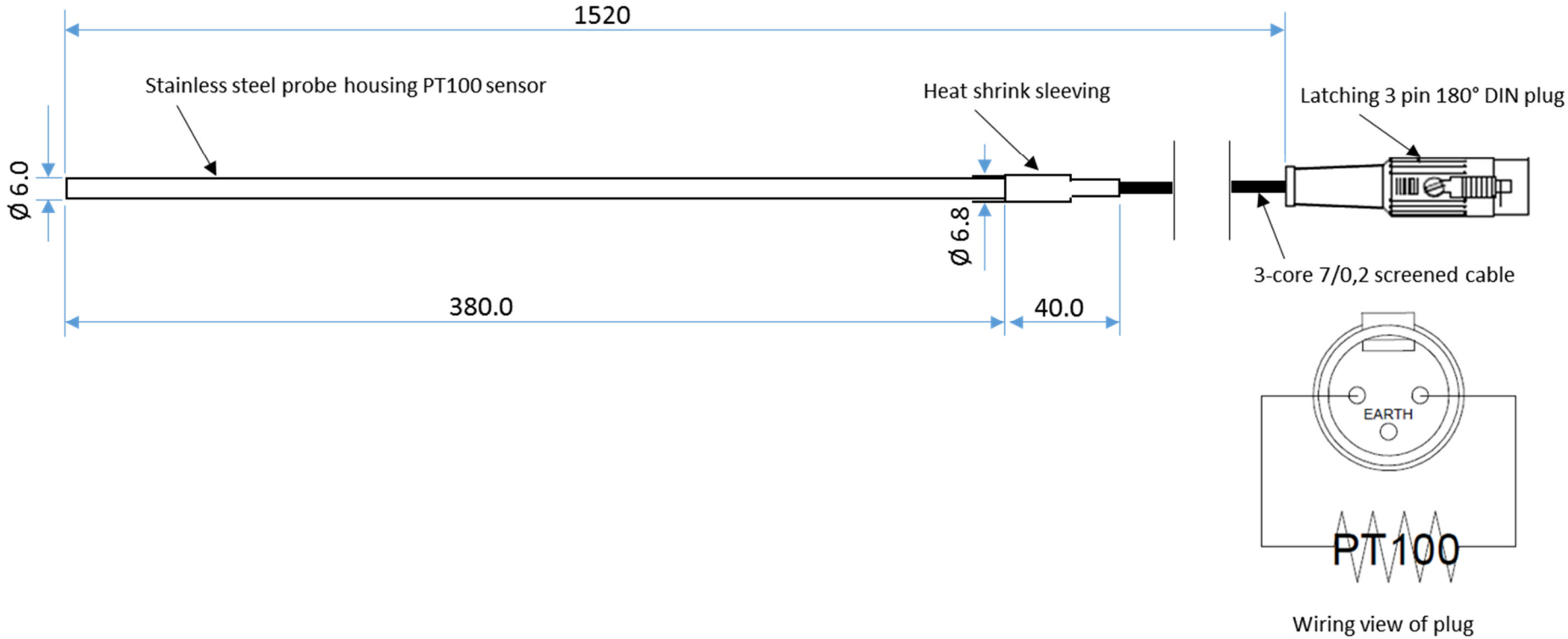
PTFE coated stainless steel temperature probe for measurements up to 250°C.



Specifications of temperature probes

- **AZ9046**

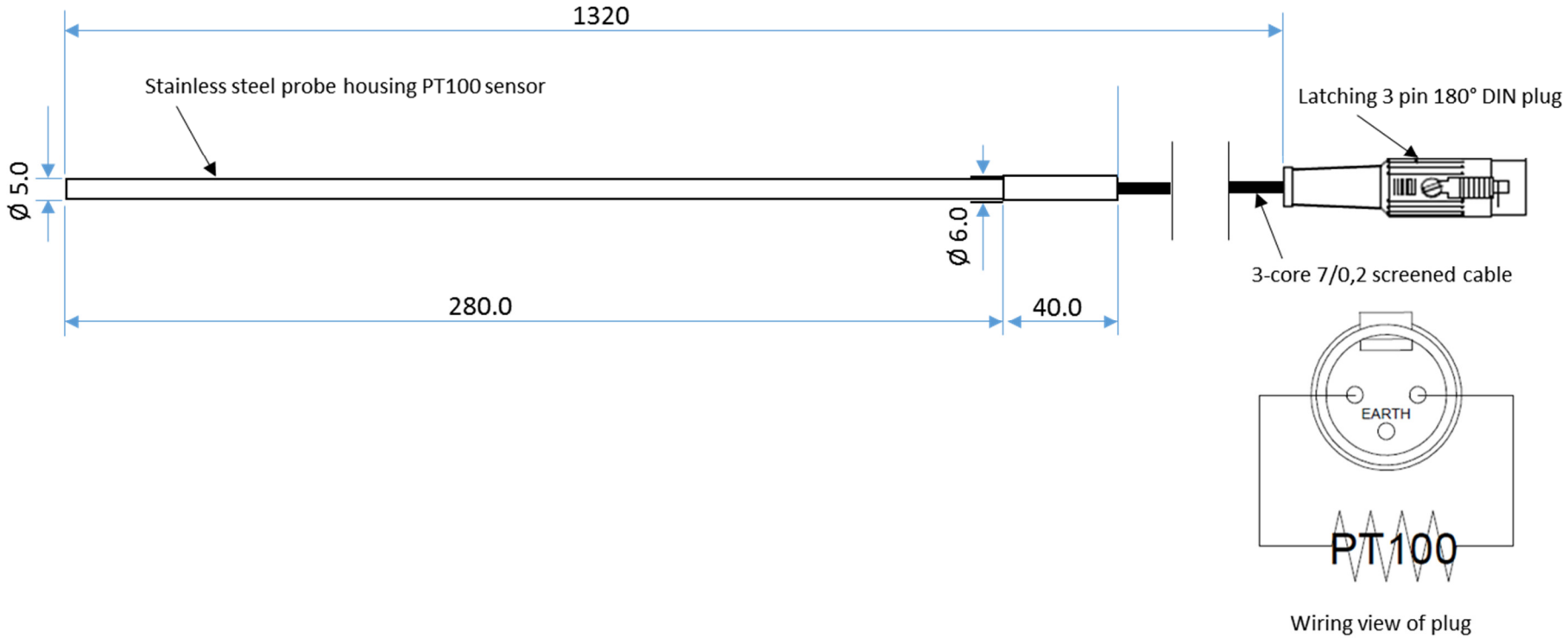
Uncoated extra length stainless steel temperature probe for measurements up to 250°C.



Specifications of temperature probes

- **AZ6706**

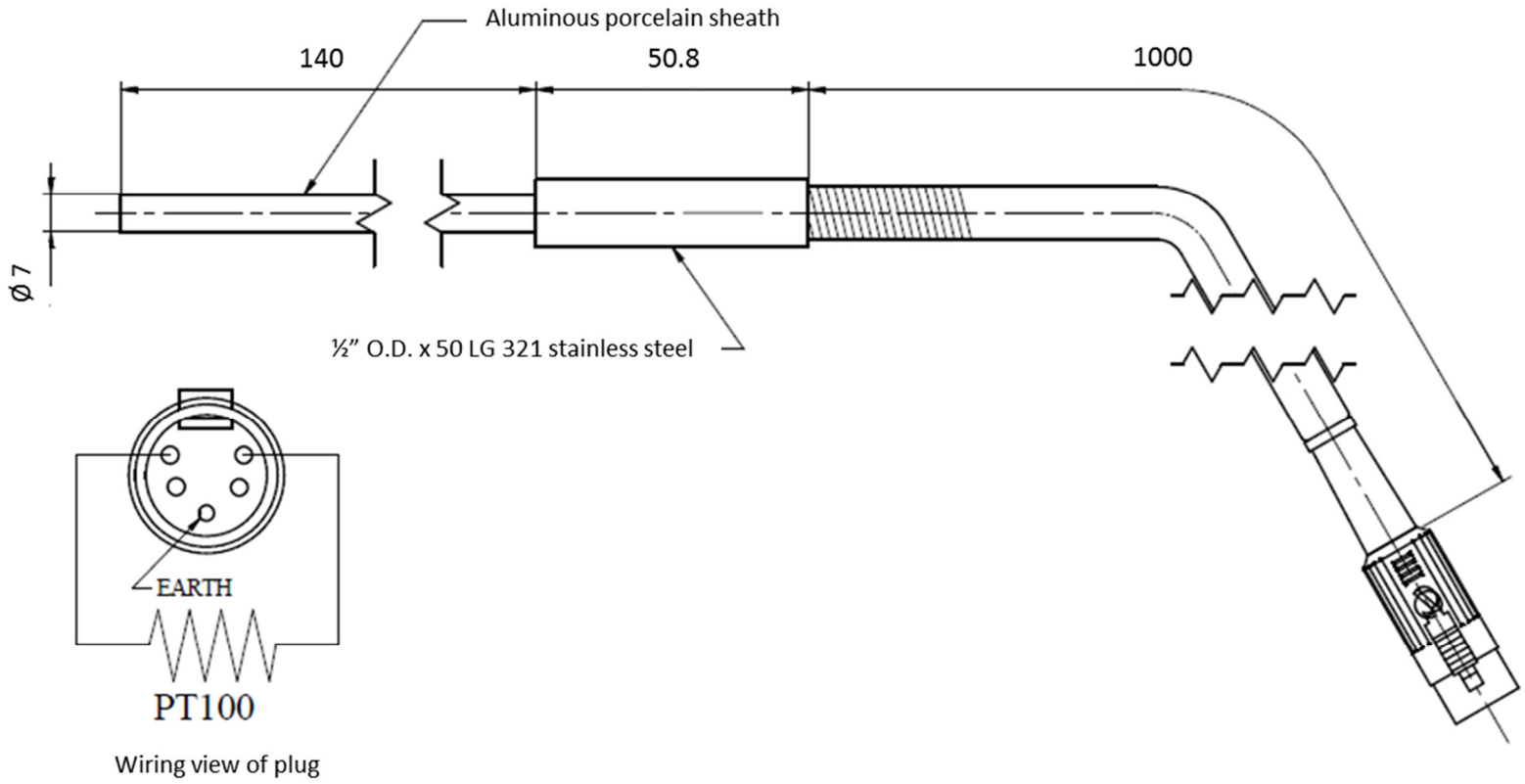
Uncoated stainless steel temperature probe for measurements up to 400°C.



Specifications of temperature probes

- **AZ6741**

Stainless steel temperature probe with porcelain sheath for measurements up to 800°C.



Wiring view of plug