

SECTION 1

Features and Ordering Information

This section provides the features of the ES1A and a list of available models.

1-1 Features

1-2 Ordering Information

1-1 Features

No Power Supply Required

The ES1A has electromotive output as high as that of a thermocouple, thus connecting directly to the thermocouple input terminal of the Temperature Controller with no external power supply required.

Compact

The ES1A-A is as compact as 14 x 18.6 x 34 (W x H x D) and can be built into machines and equipment with ease.

Low Price

The ES1A costs less than any of OMRON's conventional Non-contact Temperature Sensor models. Furthermore, the ES1A is highly durable, thus requiring replacement less frequently than thermocouples while ensuring economical operating cost.

Available at High Ambient Temperature

The ES1A-C has a measurement temperature range between 115°C and 165°C or 160°C and 260°C and incorporates an air purge function, thus air-cooling itself and operating at a maximum of 120°C.

Four Temperature Ranges (10°C to 260°C) Selectable

Four temperature ranges are available to cover a wide range of temperature measurement needs including those in the food processing, packaging, molding, and electronic industries.

High-speed Response and High Precision

High-precision temperature measurement is ensured by a high-speed response of 300 ms, provided that the response rate is 63.2%, and an indicator reproducibility of $\pm 0.1\%$. Unlike thermocouples, the Sensor does not deteriorate. Therefore, stable, real-time temperature control can be maintained.

1-2 Ordering Information

The following models are available.

Model	Temperature range			
	10°C to 70°C	60°C to 120°C	115°C to 165°C	160°C to 260°C
ES1A-A	Yes	Yes	Yes	---
ES1A-B	Yes	Yes	Yes	Yes
ES1A-C	Yes	Yes	Yes	Yes
ES1A-J	Cooling Jacket for ES1A-C			