

## T7506C Electronic Temperature Sensors

### SPECIFICATION DATA

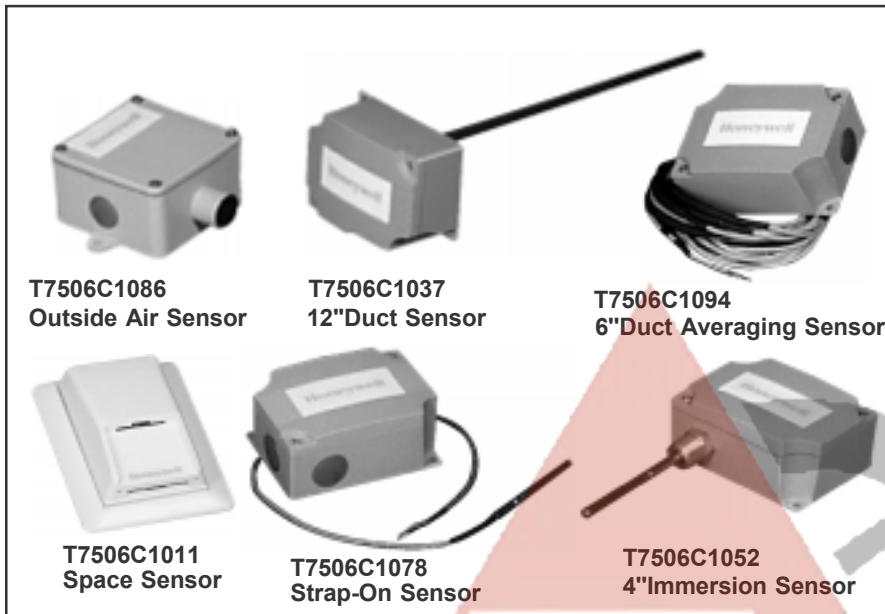
### FEATURES

- Fast response.
- Precise temperature measurement.
- 100 ohm or 4~20mA outputs

### GENERAL

The T7506 C is 100 ohm platinum resistance or 4~20mA output temperature detectors (RTD's), that sense temperature in electronic HVAC systems. They are designed for a variety of media such as air, liquid and steam. All sensors are Honeywell brand labeled.

Sensors are available in different housings for space, surface, duct, immersion, duct averaging, strap-on and outside air applications.



### 100 OHM PLATINUM SENSORS

O/S NUMBER	DESCRIPTION
T7506C1011	Space designer
T7506C1029	8" SS duct sensor
T7506C1037	12" SS duct sensor
T7506C1045	18" SS duct sensor
T7506C1052	4" SS spring-loaded immersion sensor-requires thermowell
T7506C1060	6" SS spring-loaded immersion sensor-requires thermowell
T7506C1094	6' flex-duct averaging sensor
T7506C1102	12' flex-duct averaging sensor
T7506C1110	20' flex-duct averaging sensor
T7506C1128	24' flex-duct averaging sensor
T7506C1078	2" SS strap-on sensor
T7506C1086	Outside air sensor c/w sunshield

### 4-20mA OPTION FOR 100 OHM PLATINUM SENSOR

SUFFIX TO O/S	DESCRIPTION
-1	0°-35°C (32°-95°F), 24 VDC
-2	0°-50°C (32°-122°F), 24 VDC
-3	0°-100°C (32°-212°F), 24 VDC
-4	50°-150°C (122°-302°F), 24 VDC
-5	50°-250°C (122°-482°F), 24 VDC
-6	-50°-50°C (-58°-122°F), 24 VDC

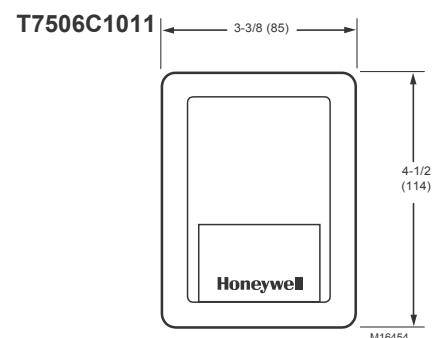
### SPECIFICATIONS

#### Models:

##### T7506C1001 Space Sensor:

The T7506C is a wall mounted sensor complete with designer cover.

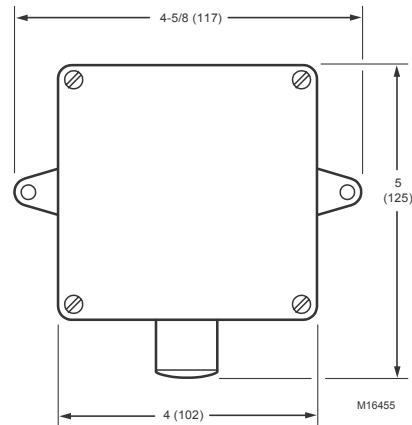
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**T7506C1086 Outside Air Sensor:**

The T7506C sensor is housed in a PVC weatherproof enclosure. The platinum sensing element is protected by a sun/wind shield.

**T7506C1086**

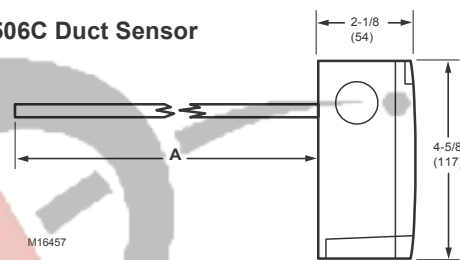


**Duct Sensor:**

The T7506C duct sensor measures air temperature in a duct. The platinum sensing element is in the tip of a stainless steel probe.

- 200mm (8 in.) probe T7506C1029
- “A” • 300mm (12 in.) probe T7506C1037
- 450mm (18 in.) probe T7506C1045

**T7506C Duct Sensor**

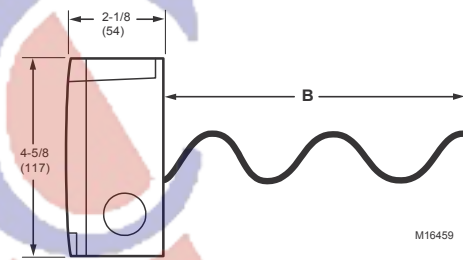


**Duct Averaging Sensor:**

The T7506C is a duct averaging temperature sensor of a totally flexibly plenum rated (CSA FT6) cable which incorporates numerous sensors at equal distances across its length acting as a single sensor.

- 1820mm (6 ft.) cable T7506C1094
- “B” • 3660mm (12 ft.) cable T7506C1102
- 6000mm (20 ft.) cable T7506C1110

**T7506C Duct Averaging Sensor**



**T7506C1078 Strap-on Sensor:**

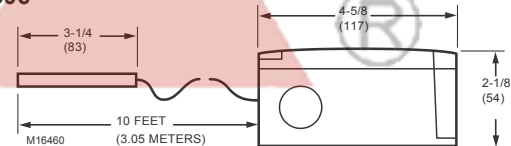
The T7506C strap-on sensor is a remote probe that can be strapped on a pipe or any other application in which temperature is measured.

**Immersion Sensor:**

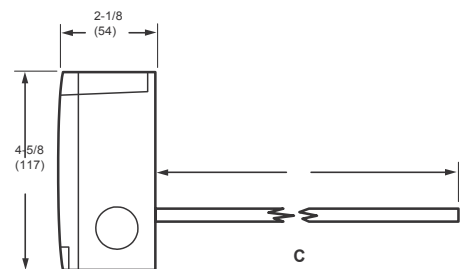
The T7506C Immersion sensor is encapsulated in a spring-loaded probe that can be fitted directly into any thermowell providing contact with the bottom of the thermowell.

- “C” • 100mm (4 in.) probe T7506C1052
- 150mm (6 in.) probe T7506C1060

**T7506 C**



**T7506C Immersion Sensor**



**Sensor Element:**

100 ohm Platinum thin film. Positive Temperature Coefficient. Operating Range -40 to +100°C. (-40 to 212 F) Humidity: 5 to 95 RH non-condensing.

**Sensor Accuracy**

±0.1 % at 0°C ohms/ohm/°C

**Transmitter Accuracy**

±0.2°C FS

**Accessories**

**Immersion Sensor:**

- Brass Well 100mm 40761553-001
- Brass Well 150mm 40761554-001
- Stainless Steel Well 100mm 40761555-001
- Stainless Steel Well 150mm 40761556-001

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