

### Models Available

**DPWT** Wall Mounting Temperature Sensor

**DPWC** Wall Mounting Temperature & Humidity Sensor

**DPDT** Duct Mounting Temperature Sensor

**DPDC** Duct Mounting Temperature & Humidity Sensor

**DPPT** Industrial Environment Temperature Sensor

**DPPC** Industrial Environment Temperature & Humidity Sensor

### Product Features

- Temperature range from -20 to +70°C
- Humidity range from 0-100% rH
- Selectable 0-1V or 4-20mA output
- 8 to 30Vdc or 12 to 24Vac powered
- Duct or industrial sensors IP55
- Wall sensors IP30

## Temperature & Humidity Sensors

The Tempatron DP series temperature and humidity sensors are designed for sensing temperature and humidity in commercial and industrial applications. Temperature only versions are available as well as combined temperature and humidity versions.

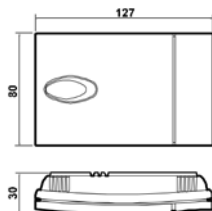
The sensors are available in wall mounting, duct mounting and industrial environment wall mounting enclosures and have a selectable 0-1Vdc or 4-20mA output.

These high accuracy sensors have an enclosure code of up to IP55 and are powered from a 8 to 30Vdc or 12-24Vac.

## Temperature & humidity sensors for commercial and industrial applications

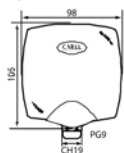
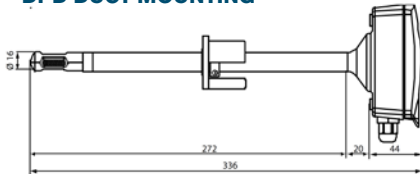
### Dimensions

#### DPW WALL MOUNTING

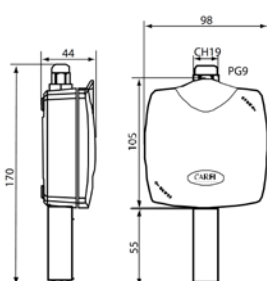


Wall mounting hole centres 83mm

#### DPD DUCT MOUNTING



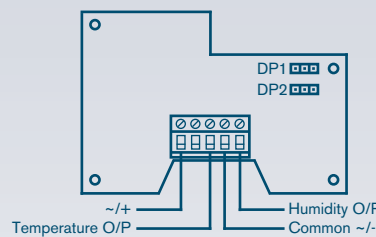
#### DPP INDUSTRIAL WALL MOUNTING



All dimensions in mm

### Connections

#### DPxxx0xxx



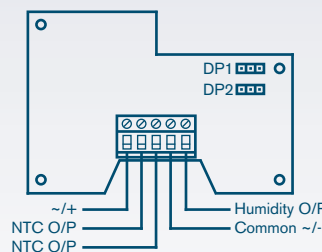
DP1  ON  
DP2  OFF | -0.5 to 1V | R min. 1kohm

DP1  ON  
DP2  OFF | 0 to 1V

DP1  ON  
DP2  OFF | 4 to 20mA | R max. 100kohm

On models with 2 outputs jumpers must be configured in the same way

#### DPxxx1xxx



DP1  ON  
DP2  OFF | -0.5 to 1V | R min. 1kohm

DP1  ON  
DP2  OFF | 0 to 1V

DP1  ON  
DP2  OFF | 4 to 20mA | R max. 100kohm

On models with 2 outputs jumpers must be configured in the same way

**Ordering information**

Model	Code	Description
	DPW	Wall Mounting Sensor
	DPD	Duct Mounting Sensor
	DPP	Industrial Environment Wall Mounting Sensor

Input	Code	Description
	T	Temperature Only
	C	Temperature and Humidity

Humidity Input	Code	Description
	0	N/A
	1	10-90% rH
	2	0-100% rH

Temperature Input	Code	Description
	0	N/A
	1	NTC

Output	Code	Description
	0000	0-1Vdc or 4-20mA
	1000	0-1Vdc or 4-20mA & NTC Resistive Output

<b>Example</b>	<b>DPDC111000</b>
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**Specification****Power Supply Voltage:**

- 8 to 30Vdc ( $\pm 15\%$ )
- 12 to 24Vac (-10/+15%)

**Frequency:**

- 50/60Hz

**Temperature Accuracy:**

- NTC:  
 $\pm 0.25\%$  at 25°C,  $\pm 1.2\%$  0 to 50°C
- 0 to 50°C:  
 $\pm 0.4\%$  at 25°C,  $\pm 1.2\%$  0 to 50°C
- -10 to 70°C:  
 $\pm 0.2\%$  at 25°C,  $\pm 0.7\%$  -10 to 70°C

**Humidity Accuracy:**

- 10-90%rH:  
 $\pm 3\%$  at 25°C,  $\pm 6\%$  0 to 50°C
- 0-100%rH:  
 $\pm 3\%$  at 25°C,  $\pm 5\%$  -10 to 70°C

**Temperature Output:**

- 10mV/°C or 4-20mA

**Humidity Output:**

- 10mV/%rH or 4-20mA

**Operating Range:**

- DPWT: -10 to 60°C
- DPWC: -10 to 60°C, 10-90% rH
- DPDT/DPPT: -20 to 70°C
- DPDC/DPPC: -20 to 70°C, 10-90% rH

**Storage Temperature:**

- -20°C to 70°C
- 10-90% rH (non-condensing)

**Enclosure Code:**

- DPW: IP30
- DPD: IP55
- DPP: IP55

**Weight:**

- DPW: 200g
- DPD: 450g
- DPP: 300g

**Markings:**

- CE marked (meets EN61010-1 low voltage and EN50081-1/50082-1 EMC directives)

Specification subject to change without notice.

Tempatron: Eltime House, Hall Road, Maldon, Essex, CM9 4NF UK.

# TEMPATRON

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