

Tempatron Tel: +44(0)1621 859500 Fax: +44(0)1621 855335

Temperature & Humidity Sensors

Models Available

DPWS Indoor Wall Mounting Sensor
DPDS Indoor Duct Mounting Sensor
DPUS Outdoor/Industrial Environment Wall Mounting Sensor

Product Features

- Temperature range from -40 to +70°C
- Humidity range from 10-100% rH
- 4-20mA or 0-10Vdc output
- 12* to 24Vac/dc powered
- Duct or industrial sensors IP55
- Wall sensors IP20

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 either a selectable 4-20mA output or a 0-10Vdc output.

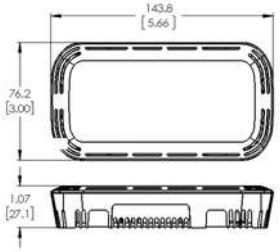
These high accuracy sensors have an enclosure code of up to IP55 and are powered from 12* to 24Vac/dc.

*16Vac or 20Vdc for the 0-10Vdc output versions.

Temperature & humidity sensors for commercial and industrial applications

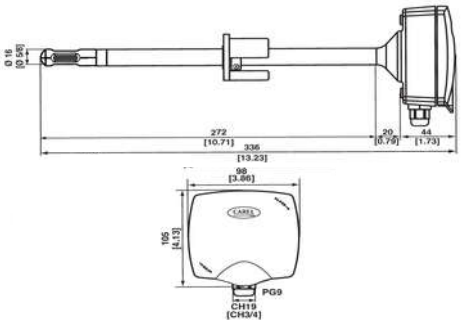
Dimensions

DPWS WALL MOUNTING

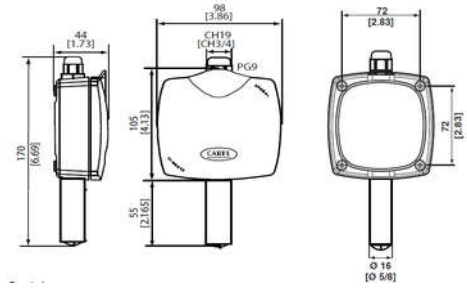


Wall mounting hole centres 83mm

DPDS DUCT MOUNTING

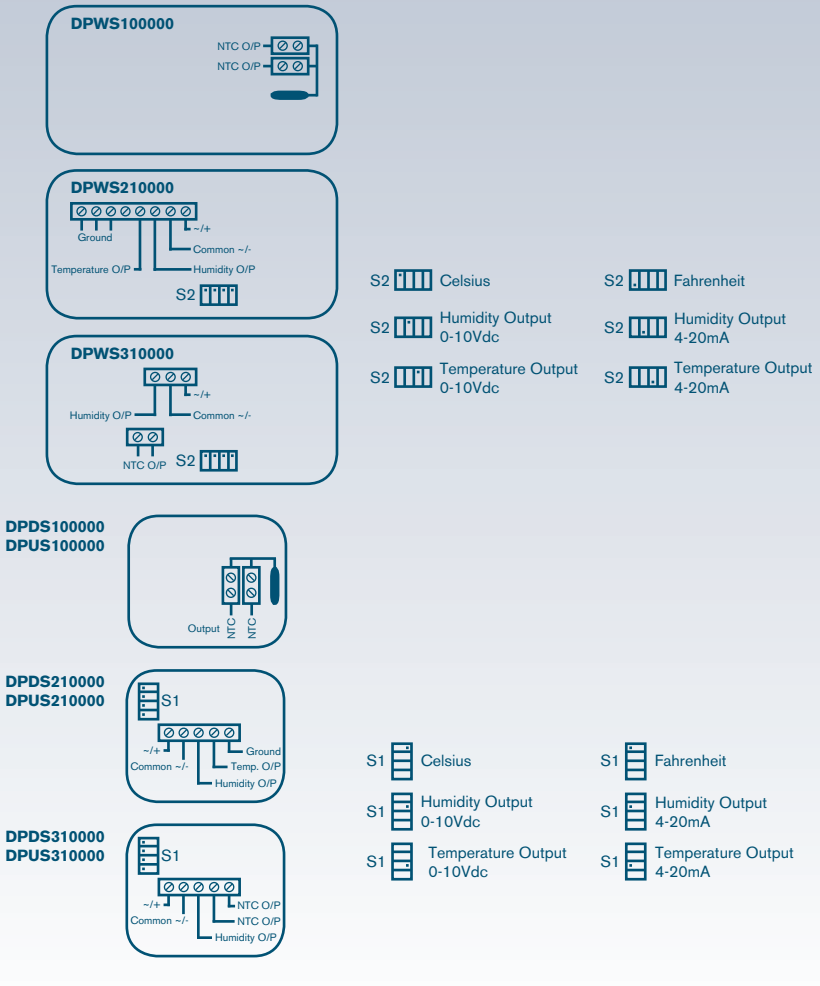


DPUS INDUSTRIAL WALL MOUNTING



All dimensions in mm

Connections



Ordering information

Model	Code	Description
	DPWS	Wall Mounting Sensor
	DPDS	Duct Mounting Sensor
	DPUS	Industrial Environment Wall Mounting Sensor

Output	Code	Description
	100000	Temperature Only (NTC Resistive)
	210000	Temperature (4-20mA or 0-10Vdc) Humidity (4-20mA or 0-10Vdc)
	310000	Temperature (NTC Resistive) Humidity (4-20mA or 0-10Vdc)

Example **DPWS210000**

Specification

Power Supply Voltage:
- 12* to 24Vac/dc (-10/+15%)
  *16Vac or 20Vdc for the 0-10Vdc output

Frequency:
- 50/60Hz

Temperature Accuracy:
- 4-20mA or 0-10Vdc:
  ±0.5°C at 25°C, ±1°C at -40 to 70°C
- NTC:
  ±0.3°C at 25°C, ±0.9°C at -10 to 60°C

Humidity Accuracy:
- 0-100% rH:
  ±2% at 25°C, ±5% maximum

Temperature Output:
- 4-20mA for -40 to +70 °C (0.145mA / °C)
- 0-10Vdc for -40 to +70 °C (90.9mV / °C)

Humidity Output:
- 4-20mA for 0 to 100% rH (0.16mA / % rH)
- 0-10Vdc for 0 to 100% rH (100mV / % rH)

Operating Range:
- -40 to +70°C, 10-100% rH

Storage Temperature:
- -40°C to 70°C
- 10-90% rH (non-condensing)

Enclosure Code:
- DPWS: IP20
- DPDS: Case IP55 / Probe IP40
- DPUS: IP65

Weight:
- DPWS: 300g
- DPDS: 450g
- DPUS: 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

Tempatron Industrial Controls is a division of Eltime Ltd.

© Eltime Ltd. Tempatron Temperature & Humidity Sensors 06/2026