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
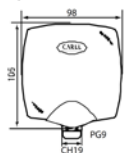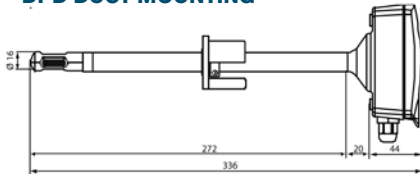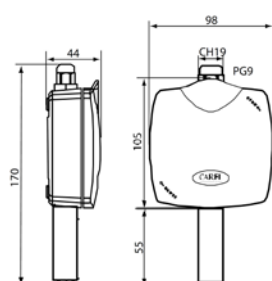
Dimensions

DPW WALL MOUNTING
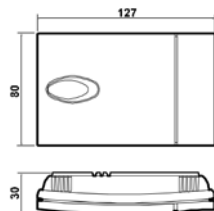
Wall mounting hole centres 83mm

DPD DUCT MOUNTING

DPP INDUSTRIAL WALL MOUNTING
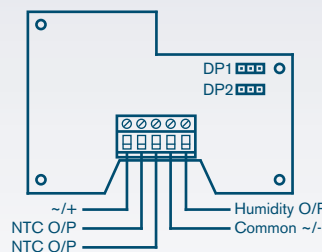

All dimensions in mm

Connections

DPxxxx0xxx
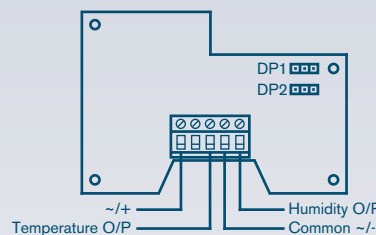
DP1 ON / DP2 OFF   -0.5 to 1V

DP1 ON / DP2 OFF   0 to 1V   R min. 1kohm

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

~/+
Temperature O/P
Humidity O/P
Common ~/-

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

DPxxxx1xxx

DP1 ON / DP2 OFF   -0.5 to 1V

DP1 ON / DP2 OFF   0 to 1V   R min. 1kohm

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

~/+
NTC O/P
NTC O/P
Humidity O/P
Common ~/-

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

Tempatron   Email: sales@tempatron.co.uk   Web: www.tempatron.co.uk   Continued...

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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

Example	DPDC111000	

Specification

Power Supply Voltage:
- 8 to 30Vdc (±15%)
- 12 to 24Vac (-10/+15%)

Frequency:
- 50/60Hz

Temperature Accuracy:
- NTC:
  ±0.25% at 25°C, ±1.2% 0 to 50°C
- 0 to 50°C:
  ±0.4% at 25°C, ±1.2% 0 to 50°C
- -10 to 70°C:
  ±0.2% at 25°C, ±0.7% -10 to 70°C

Humidity Accuracy:
- 10-90%rH:
  ±3% at 25°C, ±6% 0 to 50°C
- 0-100%rH:
  ±3% at 25°C, ±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.

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