

Temperature and humidity sensors



DP series temperature & humidity sensors

room, industrial and duct



CAREL proposes the new DP series range of active temperature and humidity sensors, available for rooms, industrial applications and ducts, designed for the residential and light industrial HVAC/R market.

The new range extends the number of models with 0 to 10 V and RS485 serial output (Modbus® and CAREL).

The RS485 version allows up to 32 sensors to be connected to the same local network, thus optimising the use of the I/Os on the controller, and simplifying wiring, with significant cost savings.

One important new feature is the case that houses the sensors for industrial applications and ducts, with IP55 index of protection, and simplified opening and protection of the electronic board that is separate from the case fastening screws.

General specifications

Power supply	9 to 30 Vdc / 12 to 24 Vac tol. -10%, +15%
Output signal	0 to 1 V / -0.5 to 1 V / 4 to 20 mA 0 to 10 V NTC 10K @ 25 °C RS485 serial (Modbus® RTU and CAREL protocol) - up to 32 addresses; - Baud rate 9600/19200 Bit/sec; - opto-isolated output; - Dew point variable on supervisor
Operating range	room -10 to 60°C / 10 to 90 rH% industrial & duct -10 to -60 °C / 10 to 90 rH% -20 to 70 °C / 0 to 100 rH%
Index of protection	room IP30 industrial IP55 / (sensor IP54) duct IP55 / (sensor IP40)

For other specifications, see the manual.



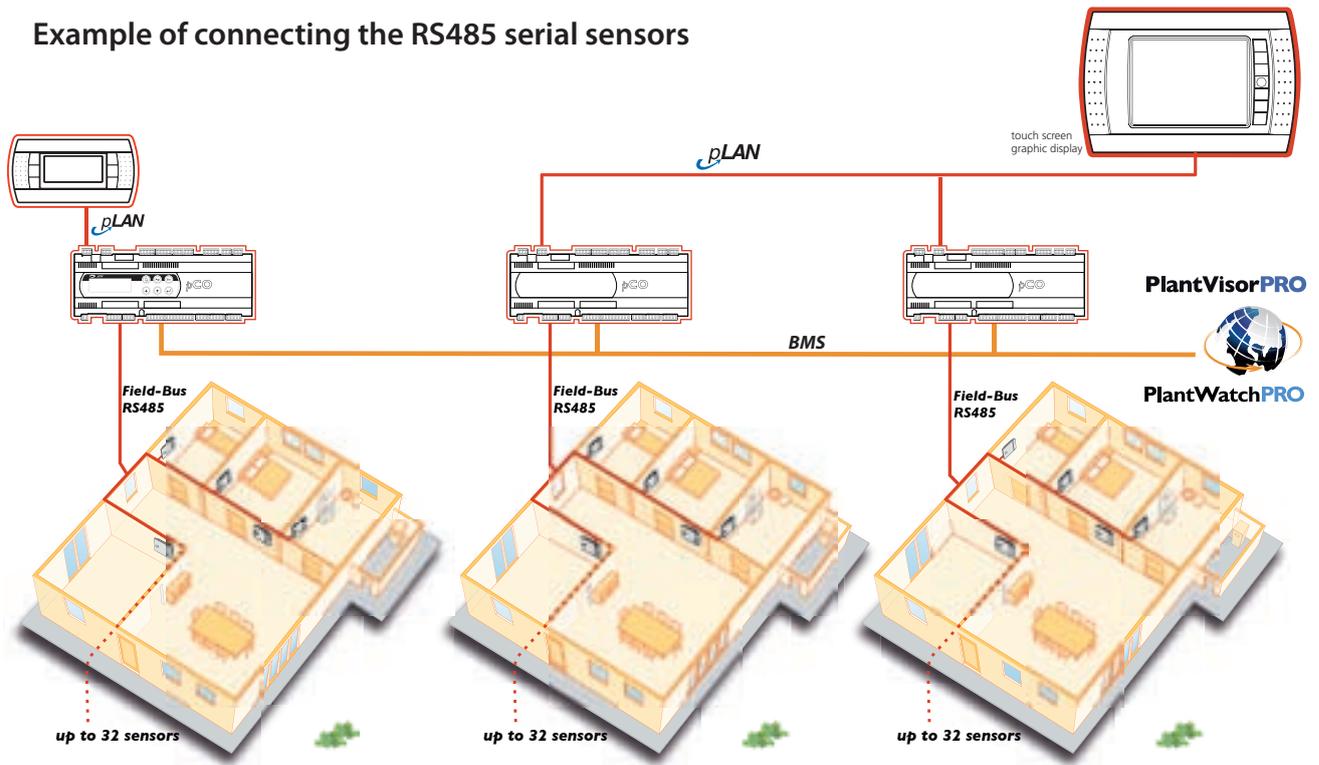
Cover opened and closed by simply twisting.

For non-standard configurations, take off the protective cover by removing the screws.

White plastic to better suit the installation environment.

Protection of the electronic board. Only the connection terminals can be accessed. Fastening screws separated from the electronic board.

Example of connecting the RS485 serial sensors



Temperature and humidity sensors with digital technology



Extension of the temperature and humidity range to -20T70°C



Models with 0 to 10 V & RS485 output, with Modbus® or CAREL protocol, addresses for up to 32 sensors



Simplified opening of the case for industrial and duct version



