



New P series range of ratiometric pressure sensors (SPKT*P0)

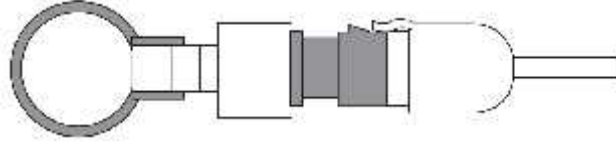
The new pressure sensors use piezoresistive technology with ASIC (Application Specific Integrated Circuit) that guarantees excellent linearity compensation and calibration, with precise pressure readings across an extended operating range (-40T135 °C).

These sensors have been designed to work in and withstand the severe conditions of the automotive market, and have been further improved to adapt to applications in the HVAC/R market. They feature higher immunity to EMC disturbance compared to current products on the market.

The electronics are housed in a compartment sealed against humidity, thus avoiding phenomena of pressure drift.

Available in seven different models with a compact design, the transducers have a Packard electrical connector, can be used with cables in various lengths (P/N SPKC*) and have a ¼ SAE female mechanical connection with 7/16-20 UNF deflator. The transducers can be used with all Carel controllers featuring a ratiometric input.

Another important feature of this new family of pressure sensors is that they can be installed directly on the piping, without requiring capillary tubing: this means significant cost savings during installation.



The following part numbers are available:

CAREL P/N	Pressure (5V) PSI (g)		Pressure (5V) bar(g)		Version	Material
	0.5 V	4.5 V	0.5 V	4.5 V		
SPKT0053P0	-15	60	-1	4.2	Female	Brass
SPKT0013P0	-15	135	-1	9.3	Female	Brass
SPKT00E3P0	-15	185	-1	12.8	Female	Brass
SPKT0043P0	0	250	0	17.3	Female	Brass
SPKT00F3P0	0	300	0	20.7	Female	Brass
SPKT0033P0	0	500	0	34.5	Female	Brass
SPKT00B6P0	0	650	0	45	Female	Brass

For further details, see technical leaflet +050000598

The new sensors are perfectly interchangeable with the current ratiometric transducers in series SPKT*R0, SPKT*R1, SPKT*R3, and can be used as spare parts for replacing products that are already installed (with the only difference being the tightening torque).

Part number cross-reference table

New P series part numbers	Current R series part numbers	Pressure PSI		Pressure Bars	
		Min	Max	Min	Max
SPKT0053P0	SPKT0053R0	-15	60	-1	4.2
SPKT0013P0	SPKT0013R0	-15	135	-1	9.3
SPKT00E3P0	SPKT00E3R0	-15	185	-1	12.8
SPKT0043P0	SPKT0043R0	0	250	0	17.3
SPKT00F3P0	SPKT00F3R0	0	300	0	20.7
SPKT0033P0	SPKT0033R0	0	500	0	34.5
SPKT00B6P0	SPKT00B6R0	0	650	0	45

N.B. The only difference between the part numbers is the ninth digit.

Kindly forward this information to all your colleagues .