

Attestation of Conformity

Component intended for use in potentially explosive atmosphere
ATEX Directive 2014/34/EU

This attestation of conformity is issued under the sole responsibility of the manufacturer:
CAREL Industries S.p.A. Via dell'Industria, 11 35020 Brugine (PD) Italy



SPK-P series - Pressure sensor transducers

Code	Description																														
SPKa01bcPd	SPK pressure sensor transducers, P series																														
a:	Connection type: T= Screw type, Brass – 1/4" SAE, 7/16" UNF S= Welding type, Brass – 1/4" Tube																														
b:	Pressure range: <table><tr><td></td><td>psi</td><td>Bar</td><td></td><td>psi</td><td>Bar</td></tr><tr><td>5=</td><td>-15 ~ 60</td><td>-1 ~ 4,2</td><td>F=</td><td>0 ~ 300</td><td>0 ~ 20,7</td></tr><tr><td>1=</td><td>-15 ~ 135</td><td>-1 ~ 9,3</td><td>3=</td><td>0 ~ 500</td><td>0 ~ 34,5</td></tr><tr><td>E=</td><td>-15 ~ 185</td><td>-1 ~ 12,8</td><td>B=</td><td>0 ~ 650</td><td>0 ~ 45</td></tr><tr><td>4=</td><td>0 ~ 250</td><td>0 ~ 17,3</td><td></td><td></td><td></td></tr></table>		psi	Bar		psi	Bar	5=	-15 ~ 60	-1 ~ 4,2	F=	0 ~ 300	0 ~ 20,7	1=	-15 ~ 135	-1 ~ 9,3	3=	0 ~ 500	0 ~ 34,5	E=	-15 ~ 185	-1 ~ 12,8	B=	0 ~ 650	0 ~ 45	4=	0 ~ 250	0 ~ 17,3			
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c:	Internal coding: 3 or 6																														
d:	Packaging 0= single package, 1= multiple package, 3= distribution package																														

Subject devices described here above have been classified as **components**, and evaluated as compliant with the applicable provisions of the Directive **2014/34/EU** (ATEX) and with the following harmonized European legislations:

ATEX: **EN IEC 60079-0:2018, EN 60079-15:2010**

The devices have been evaluated as follows:

- Zone 2, Group IIA for refrigeration applications;
- Type of protection: nA;
- Service temperature range: -40°C to +80°C;
- Suitable for T6 classification when installed in an enclosure with an internal air temperature of -40°C to +80°C.

The devices shall be marked as **components** with "Ex U" letters.

In order to incorporate the devices into equipment or protective systems to assist compliance with the essential health and safety requirements set out in Annex II applicable to finished equipment or protective systems, the **Schedule of Limitation** here below must be carefully followed:

- The devices shall be protected in end-use application by another suitable Ex certified enclosure or by an enclosure which has been submitted to Thermal endurance to heat and cold (Clauses 26.8 and 26.9 of IEC/EN 60079-0) and Test for resistance to impact (Clause 26.4.2 of IEC/EN 60079-0). Furthermore, this enclosure shall provide a degree of protection not less than IP54, as defined in IEC/EN 60529 and subsequent amendments.
- Transient protection shall be provided that is set at a level not exceeding 140 % of the peak rated voltage value at the supply terminals to the device. Following Carel electronic controls have already been evaluated for this Limitation:

Product family	Product code prefix
pCO5+, c.pCO	P+3, P+5
pCOOEM, c.pCOOEM	P+1
pCO mini, c.pCO	P+D, P+P, P+E, P+R
uPC3	UP3
IJ	IJ

- The devices shall be used only in conjunction with Carel SPKC cables IP69K version, corresponding to PNs SPKC****2.

Supplementary information: User Manual and Limitations shall be carefully followed by OEM or end user, who is responsible of the compliance to relevant directives and standards of the complete final equipment or protective system where the Carel devices object of this declaration are integrated or incorporated.

Brugine, 10th October 2022

Signed for and on behalf of:
CAREL INDUSTRIES S.p.A.
Ing. Alberto Bianchi
Group Chief Research & Development Officer