

Subject to reasonable modifications due to technical advances

Copyright Pepperl+Fuchs, Printed in Germany



Accessories	E-CJC module: internal cold junction compensation K-ADP1: programming adapter for connecting the converter to the PC K-SK: PACTware programming software
Technical data Power Nominal voltage Ripple Power consumption	20 35 V DC terminals d14+, z14- within supply tolerances ≤3 W
Inputs (intrinsically safe) Input signal Lead resistance Measurement current	terminals d2-, d4, d6-, d8; z2-, z4, z6-, z8 from temperature sensors Pt100, Ni100 (2-, 3- or 4- wire sensors), model B, E, J, K, L, N, R, S or T thermocouples (IEC 584), mV- or resistor values \leq 50 Ω per lead about 400 μ A for resistance sensors, lead breakage monitoring current is switched off during measurement
Data for application in conjunction with hazardous areas EC-Type Examination Certificate Group, category, type of protection Input Voltage U Current I Power P Type of protection [EEx ia] Explosion group Max. external capacitance C Max. external inductance L Fail-safe max. voltage U Supply Output Directive conformity Directive 94/9 EC	BAS 00 ATEX 7044 X, for additional certificates see www.pepperl-fuchs.com (\textcircled{S}) II (1) G D [EEx ia] IIC (-20 °C $\leq T_a \leq 60$ °C) EEx ia IIC 11 V 33 mA 90 mW IIA IIB IIC 60 µF 13.8 µF 1.97 µF 250 mH 120 mH 31 mH 250 V (Attention! The nominal voltage can be lower.) 250 V (Attention! The nominal voltage can be lower.) EN 50014, EN 50020
Outputs (not intrinsically safe) Current output (analog) Normal operation During excessive input signal error During lead breakage (LB) error Load	terminals d30+, z30-; d32+, z32- 0/4 20 mA 20.5 mA programmable: downscaled to 2 4 mA or upscaled to 20 22.5 mA \leq 500 Ω
Voltage output Normal operation During excessive input signal error During lead breakage (LB) error Load	0/1 5 V or 0/2 10 V 5.125V or 10.25V programmable -0/1 5 V: downscaled to 0.5 1 V or upscaled to 5 5.625 V -0/2 10 V: downscaled to 1 2 V or upscaled to 10 11.25 V ≤30 Ω
Transmission Characteristics Pt100 calibrated accuracy: Thermocouples: Pt100 temperature influence (I-output): Thermocouples: Pt100 temperature influence (U-output): Thermocouples: Influence due to adjustment of the current supply Load resistance influence (Current output) Rise time	\pm (0.01 % of value in Kelvin + 0.05 % of span + 0.1 K). (4-wire connection) \pm (0.05 % of value in Celsius + 0.05 % of span + 1 K, 1.2 K with models R and S), this includes \pm 0.8 K cold junction compensation margin of error (\pm 0.9 K with models R and S) \pm (0.0015 % of value in Kelvin + 0.006 % of span)/K ΔT \pm (0.02 K + 0.004 % of value in Kelvin + 0.006 % of span)/K ΔT \pm (0.0015 % of value in Kelvin + 0.0075 % of span)/K ΔT \pm (0.02 K + 0.004 % of value in Celsius + 0.0075 % of span) per K ΔT \pm (0.01 % of span \leq 0.01 % of the output value per 100 Ω \leq 430 ms
Galvanic Isolation Input/output Input/power Output/power Input 1/input 2	available available available available
Conformity to standards Input Basic insulation Galvanic isolation Environmental conditions EMC	in accordance with DIN 19234 (NAMUR) per DIN EN 50178 per DIN EN 50178 per DIN IEC 721 per EN 50081-2, EN 50082-2, NAMUR NE 21
Coding Weight Ambient temperature Operating temperature Storage temperature	a15/a27 200 g -20 +60 ° C (253 333 K) -40 +60 ° C (233 333 K)

Subject to reasonable modifications due to technical advances.

Copyright Pepperl+Fuchs, Printed in Germany

072072_ENG Date of issue 08/18/05