Features

- 1-channel signal conditioner
- 24 V DC supply (Power Rail)
- Strain gauge input (full or half bridge)
- Output 0 mA ... \pm 20 mA or 0 V ... \pm 10 V
- · 2 relay contact outputs
- Programmable high/low alarm
- · Configurable by PACTware or keypad
- RS-485 interface
- Line fault detection (LFD)

Function

This signal conditioner provides the isolation for nonintrinsically safe applications.

The device is used with strain gauges, load cells and resistance measuring bridges.

Designed to provide 5 V excitation voltage, this barrier's high quality A/D converter allows it to be used with those devices requiring 10 V.

Up to four 350 Ω strain gauges connected in parallel may be powered and evaluated.

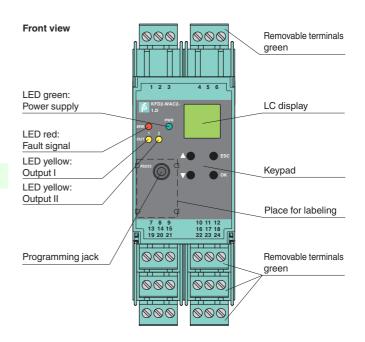
The device is easily configured by the use of keypad or with the PACTware configuration software.

The current measurement for tare, zero point, and final value can be entered in this manner.

A fault is signalized by LEDs acc. to NAMUR NE44 and a separate collective error message output.

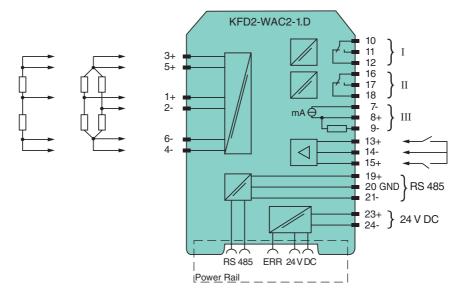
For additional information, refer to the manual and www.pepperl-fuchs.com.

Assembly





Connection



General specifications	
Signal type	Analog input
Supply	
Connection	Power Rail or terminals 23+, 24-
Rated voltage U _r	20 35 V DC
Ripple	within the supply tolerance
Power consumption	≤3 W
Interface	
Connection	Power Rail or terminals 19+, 20 GND, 21-
Type	RS-485
Programming interface	
Field circuit	programming socket
	Associated A. O. O. A. E. O.
Connection	terminals 1+, 2-, 3+, 4-, 5+, 6-
Lead resistance	\leq 25 Ω per line
Input I	
Connection	terminals 1+, 2-
Sensor supply	15 V
Connection	terminals 3+, 4- (supply); 5+, 6- (signal)
Short-circuit current	50 mA
Load	\geq 116 Ω up to 5V, \geq 85 Ω up to 4V
Input	
Connection side	field side
Connection	Input I: terminals 1+, 2-; Input II: terminals 13+, 14-; Input III: terminals 15+, 14-
Programmable Tare	0 500 % of span
Input I	Signal, analog
Input signal	-100 100 mV
· •	
Input resistance	$> 1 \text{ M}\Omega$ for voltage measurement
Input II, III	tare adjustment, calibration and zero
Open circuit voltage/short-circuit current	18 V / 5 mA
	L 4 · · · A // . 4 5 · · · A
Active/Passive	I > 4 mA/I < 1.5 mA
Output	
Connection side	control side
Connection	Output I: terminals 10, 11, 12; Output II: terminals 16, 17, 18; Output III: terminals 7-, 8+, 9-
Output I, II	Relay output
Contact loading	253 V AC/2 A/500 VA/cos φ min. 0.7; 40 V DC/2 A resistive load
Mechanical life	2 x 10 ⁷ switching cycles
0	Analog output
Output III	
Output III Current range	-20 20 mA
•	
Current range	-20 20 mA
Current range Load	-20 20 mA ≤ 550 Ω
Current range Load Analog voltage output	-20 20 mA $\leq 550~\Omega$ 0 \pm 10 V; output resistance 500 Ω (bridge between terminal 7 and 9) 0 \pm 20 mA or 4 20 mA; load 0 550 Ω (terminals 7 and 8)
Current range Load Analog voltage output Analog current output Line fault detection	-20 20 mA $\leq 550~\Omega$ 0 \pm 10 V; output resistance 500 Ω (bridge between terminal 7 and 9) 0 \pm 20 mA or 4 20 mA; load 0 550 Ω (terminals 7 and 8) downscale -21.5 mA (-10.75 V) or 2 mA (1 V), upscale 21.5 mA (10.75 V)
Current range Load Analog voltage output Analog current output Line fault detection Collective error message	-20 20 mA $\leq 550~\Omega$ 0 \pm 10 V; output resistance 500 Ω (bridge between terminal 7 and 9) 0 \pm 20 mA or 4 20 mA; load 0 550 Ω (terminals 7 and 8)
Current range Load Analog voltage output Analog current output Line fault detection Collective error message Transfer characteristics	-20 20 mA $\leq 550~\Omega$ 0 \pm 10 V; output resistance 500 Ω (bridge between terminal 7 and 9) 0 \pm 20 mA or 4 20 mA; load 0 550 Ω (terminals 7 and 8) downscale -21.5 mA (-10.75 V) or 2 mA (1 V), upscale 21.5 mA (10.75 V)
Current range Load Analog voltage output Analog current output Line fault detection Collective error message Transfer characteristics Deviation	-20 20 mA $\leq 550~\Omega$ 0 \pm 10 V; output resistance 500 Ω (bridge between terminal 7 and 9) 0 \pm 20 mA or 4 20 mA; load 0 550 Ω (terminals 7 and 8) downscale -21.5 mA (-10.75 V) or 2 mA (1 V), upscale 21.5 mA (10.75 V) Power Rail
Current range Load Analog voltage output Analog current output Line fault detection Collective error message Transfer characteristics Deviation Resolution/accuracy	-20 20 mA $\leq 550~\Omega$ 0 \pm 10 V; output resistance 500 Ω (bridge between terminal 7 and 9) 0 \pm 20 mA or 4 20 mA; load 0 550 Ω (terminals 7 and 8) downscale -21.5 mA (-10.75 V) or 2 mA (1 V), upscale 21.5 mA (10.75 V) Power Rail $\leq \pm~0.05~\%$ incl. non-linearity and hysteresis
Current range Load Analog voltage output Analog current output Line fault detection Collective error message Transfer characteristics Deviation Resolution/accuracy Temperature effect	-20 20 mA $\leq 550~\Omega$ 0 \pm 10 V; output resistance 500 Ω (bridge between terminal 7 and 9) 0 \pm 20 mA or 4 20 mA; load 0 550 Ω (terminals 7 and 8) downscale -21.5 mA (-10.75 V) or 2 mA (1 V), upscale 21.5 mA (10.75 V) Power Rail $\leq \pm~0.05~\%$ incl. non-linearity and hysteresis $\leq \pm~0.01~\%/K$
Current range Load Analog voltage output Analog current output Line fault detection Collective error message Transfer characteristics Deviation Resolution/accuracy Temperature effect Reaction time	-20 20 mA $\leq 550~\Omega$ 0 \pm 10 V; output resistance 500 Ω (bridge between terminal 7 and 9) 0 \pm 20 mA or 4 20 mA; load 0 550 Ω (terminals 7 and 8) downscale -21.5 mA (-10.75 V) or 2 mA (1 V), upscale 21.5 mA (10.75 V) Power Rail $\leq \pm~0.05~\%$ incl. non-linearity and hysteresis
Current range Load Analog voltage output Analog current output Line fault detection Collective error message Transfer characteristics Deviation Resolution/accuracy Temperature effect Reaction time Galvanic isolation	-20 20 mA ≤ 550 Ω 0 ± 10 V; output resistance 500 Ω (bridge between terminal 7 and 9) 0 ± 20 mA or 4 20 mA; load 0 550 Ω (terminals 7 and 8) downscale -21.5 mA (-10.75 V) or 2 mA (1 V), upscale 21.5 mA (10.75 V) Power Rail ≤ ± 0.05 % incl. non-linearity and hysteresis ≤ ± 0.01 %/K 300 850 ms
Current range Load Analog voltage output Analog current output Line fault detection Collective error message Transfer characteristics Deviation Resolution/accuracy Temperature effect Reaction time Galvanic isolation Input I/other circuits	-20 20 mA $\leq 550~\Omega$ 0 \pm 10 V; output resistance 500 Ω (bridge between terminal 7 and 9) 0 \pm 20 mA or 4 20 mA; load 0 550 Ω (terminals 7 and 8) downscale -21.5 mA (-10.75 V) or 2 mA (1 V), upscale 21.5 mA (10.75 V) Power Rail $\leq \pm~0.05~\%~incl.~non-linearity~and~hysteresis$ $\leq \pm~0.01~\%/K$ 300 850 ms
Current range Load Analog voltage output Analog current output Line fault detection Collective error message Transfer characteristics Deviation Resolution/accuracy Temperature effect Reaction time Galvanic isolation Input I/other circuits Output I, II against eachother	-20 20 mA ≤ 550 Ω 0 ± 10 V; output resistance 500 Ω (bridge between terminal 7 and 9) 0 ± 20 mA or 4 20 mA; load 0 550 Ω (terminals 7 and 8) downscale -21.5 mA (-10.75 V) or 2 mA (1 V), upscale 21.5 mA (10.75 V) Power Rail ≤ ± 0.05 % incl. non-linearity and hysteresis ≤ ± 0.01 %/K 300 850 ms reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V _{eff} reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V _{eff}
Current range Load Analog voltage output Analog current output Line fault detection Collective error message Transfer characteristics Deviation Resolution/accuracy Temperature effect Reaction time Galvanic isolation Input I/other circuits Output I, II against eachother Output I, II/other circuits	-20 20 mA $\leq 550~\Omega$ 0 \pm 10 V; output resistance 500 Ω (bridge between terminal 7 and 9) 0 \pm 20 mA or 4 20 mA; load 0 550 Ω (terminals 7 and 8) downscale -21.5 mA (-10.75 V) or 2 mA (1 V), upscale 21.5 mA (10.75 V) Power Rail $\leq \pm~0.05~\%~incl.~non-linearity~and~hysteresis$ $\leq \pm~0.01~\%/K$ 300 850 ms
Current range Load Analog voltage output Analog current output Line fault detection Collective error message Transfer characteristics Deviation Resolution/accuracy Temperature effect Reaction time Galvanic isolation Input I/other circuits Output I, II against eachother	-20 20 mA ≤ 550 Ω 0 ± 10 V; output resistance 500 Ω (bridge between terminal 7 and 9) 0 ± 20 mA or 4 20 mA; load 0 550 Ω (terminals 7 and 8) downscale -21.5 mA (-10.75 V) or 2 mA (1 V), upscale 21.5 mA (10.75 V) Power Rail ≤ ± 0.05 % incl. non-linearity and hysteresis ≤ ± 0.01 %/K 300 850 ms reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V _{eff} reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V _{eff}
Current range Load Analog voltage output Analog current output Line fault detection Collective error message Transfer characteristics Deviation Resolution/accuracy Temperature effect Reaction time Galvanic isolation Input I/other circuits Output I, II against eachother Output I, II/other circuits	$^{-20}$ 20 mA $^{<}$ ≤ 550 $^{\circ}$ 0 ± 10 V; output resistance 500 $^{\circ}$ (bridge between terminal 7 and 9) 0 ± 20 mA or 4 20 mA; load 0 550 $^{\circ}$ (terminals 7 and 8) downscale -21.5 mA (-10.75 V) or 2 mA (1 V), upscale 21.5 mA (10.75 V) Power Rail $^{<}$ ± 0.05 % incl. non-linearity and hysteresis $^{<}$ ± 0.01 %/K 300 850 ms $^{<}$ reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V $^{<}$ reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V $^{<}$ reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V $^{<}$ reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V $^{<}$ reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V $^{<}$
Current range Load Analog voltage output Analog current output Line fault detection Collective error message Transfer characteristics Deviation Resolution/accuracy Temperature effect Reaction time Galvanic isolation Input I/other circuits Output I, II against eachother Output I, II/other circuits Output III/Input II, III	$^{-20}$ 20 mA $^{<}$ ≤ 550 Ω $^{<}$ 0 ± 10 V; output resistance 500 Ω (bridge between terminal 7 and 9) 0 ± 20 mA or 4 20 mA; load 0 550 Ω (terminals 7 and 8) downscale -21.5 mA (-10.75 V) or 2 mA (1 V), upscale 21.5 mA (10.75 V) Power Rail $^{<}$ ± 0.05 % incl. non-linearity and hysteresis $^{<}$ ± 0.01 %/K 300 850 ms $^{<}$ reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V $_{\rm eff}$ reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V $_{\rm eff}$ reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V $_{\rm eff}$ reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V $_{\rm eff}$ reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V $_{\rm eff}$ not available
Current range Load Analog voltage output Analog current output Line fault detection Collective error message Transfer characteristics Deviation Resolution/accuracy Temperature effect Reaction time Galvanic isolation Input I/other circuits Output I, II against eachother Output I, II/other circuits Output III/Input II, III Output III/Programming socket	-20 20 mA $\leq 550 \Omega$ 0 \pm 10 V; output resistance 500 Ω (bridge between terminal 7 and 9) 0 \pm 20 mA or 4 20 mA; load 0 550 Ω (terminals 7 and 8) downscale -21.5 mA (-10.75 V) or 2 mA (1 V), upscale 21.5 mA (10.75 V) Power Rail $\leq \pm 0.05 \% \text{ incl. non-linearity and hysteresis}$ $\leq \pm 0.01 \%/K$ 300 850 ms $\text{reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V}_{\text{eff}}$ reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V $_{\text{eff}}$ reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V $_{\text{eff}}$ reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V $_{\text{eff}}$ not available not available
Current range Load Analog voltage output Analog current output Line fault detection Collective error message Transfer characteristics Deviation Resolution/accuracy Temperature effect Reaction time Galvanic isolation Input I/other circuits Output I, II against eachother Output I, III/other circuits Output III/Input II, III Output III/Programming socket Other circuits from each other	$^{-20}$ 20 mA $^{<}$ ≤ 550 Ω $^{<}$ 0 ± 10 V; output resistance 500 Ω (bridge between terminal 7 and 9) 0 ± 20 mA or 4 20 mA; load 0 550 Ω (terminals 7 and 8) downscale -21.5 mA (-10.75 V) or 2 mA (1 V), upscale 21.5 mA (10.75 V) Power Rail $^{<}$ ± 0.05 % incl. non-linearity and hysteresis $^{<}$ ± 0.01 %/K 300 850 ms $^{<}$ reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V $_{\rm eff}$ reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V $_{\rm eff}$ reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V $_{\rm eff}$ reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V $_{\rm eff}$ not available not available
Current range Load Analog voltage output Analog current output Line fault detection Collective error message Transfer characteristics Deviation Resolution/accuracy Temperature effect Reaction time Galvanic isolation Input I/other circuits Output I, II against eachother Output I, II/other circuits Output III/Input II, III Output III/Programming socket Other circuits from each other Indicators/settings	$\begin{array}{l} -20 \dots 20 \text{ mA} \\ \leq 550 \Omega \\ 0 \dots \pm 10 \text{V}; \text{ output resistance } 500 \Omega \text{ (bridge between terminal 7 and 9)} \\ 0 \dots \pm 20 \text{mA or 4} \dots 20 \text{mA}; \text{ load } 0 \dots 550 \Omega \text{ (terminals 7 and 8)} \\ \text{downscale -21.5 mA (-10.75 V) or 2 mA (1 V), upscale } 21.5 \text{mA (} 10.75 \text{V)} \\ \text{Power Rail} \\ \\ \leq \pm 0.05 \% \text{ incl. non-linearity and hysteresis} \\ \leq \pm 0.01 \% / \text{K} \\ 300 \dots 850 \text{ms} \\ \\ \text{reinforced insulation according to IEC/EN 61010-1, rated insulation voltage } 300 \text{V}_{\text{eff}} \\ \text{reinforced insulation according to IEC/EN 61010-1, rated insulation voltage } 300 \text{V}_{\text{eff}} \\ \text{reinforced insulation according to IEC/EN 61010-1, rated insulation voltage } 300 \text{V}_{\text{eff}} \\ \text{not available} \\ \text{not available} \\ \text{functional insulation, rated insulation voltage } 50 \text{V}_{\text{eff}} \\ \end{array}$
Current range Load Analog voltage output Analog current output Line fault detection Collective error message Transfer characteristics Deviation Resolution/accuracy Temperature effect Reaction time Galvanic isolation Input I/other circuits Output I, II against eachother Output I, II/other circuits Output III/Input II, III Output III/Programming socket Other circuits from each other Indicators/settings Display elements Control elements	$\begin{array}{l} -20 \dots 20 \text{ mA} \\ \leq 550 \Omega \\ 0 \dots \pm 10 \text{V}; \text{ output resistance } 500 \Omega \text{ (bridge between terminal 7 and 9)} \\ 0 \dots \pm 20 \text{mA or 4} \dots 20 \text{mA}; \text{ load } 0 \dots 550 \Omega \text{ (terminals 7 and 8)} \\ \text{downscale -21.5 mA (-10.75 V) or 2 mA (1 V), upscale 21.5 mA (10.75 V)} \\ \text{Power Rail} \\ \\ \leq \pm 0.05 \% \text{ incl. non-linearity and hysteresis} \\ \leq \pm 0.01 \% \text{K} \\ 300 \dots 850 \text{ms} \\ \\ \text{reinforced insulation according to IEC/EN 61010-1, rated insulation voltage } 300 \text{V}_{\text{eff}} \\ \text{reinforced insulation according to IEC/EN 61010-1, rated insulation voltage } 300 \text{V}_{\text{eff}} \\ \text{reinforced insulation according to IEC/EN 61010-1, rated insulation voltage } 300 \text{V}_{\text{eff}} \\ \text{not available} \\ \text{not available} \\ \text{functional insulation, rated insulation voltage } 50 \text{V}_{\text{eff}} \\ \\ \text{LEDs , display} \\ \text{Control panel} \\ \end{array}$
Current range Load Analog voltage output Analog current output Line fault detection Collective error message Transfer characteristics Deviation Resolution/accuracy Temperature effect Reaction time Galvanic isolation Input I/other circuits Output I, II against eachother Output I, II/other circuits Output III/Input II, III Output III/Programming socket Other circuits from each other Indicators/settings Display elements	$ \begin{array}{l} -20 \dots 20 \text{ mA} \\ \leq 550 \ \Omega \\ \\ 0 \dots \pm 10 \ \text{V}; \text{ output resistance } 500 \ \Omega \text{ (bridge between terminal 7 and 9)} \\ \\ 0 \dots \pm 20 \ \text{mA or 4} \dots 20 \ \text{mA}; \text{ load } 0 \dots 550 \ \Omega \text{ (terminals 7 and 8)} \\ \\ \text{downscale -21.5 mA (-10.75 V) or 2 mA (1 V), upscale } 21.5 \text{ mA (10.75 V)} \\ \text{Power Rail} \\ \\ \leq \pm 0.05 \% \text{ incl. non-linearity and hysteresis} \\ \leq \pm 0.01 \% / \text{K} \\ 300 \dots 850 \ \text{ms} \\ \\ \text{reinforced insulation according to IEC/EN 61010-1, rated insulation voltage } 300 \ \text{V}_{\text{eff}} \\ \text{reinforced insulation according to IEC/EN 61010-1, rated insulation voltage } 300 \ \text{V}_{\text{eff}} \\ \text{reinforced insulation according to IEC/EN 61010-1, rated insulation voltage } 300 \ \text{V}_{\text{eff}} \\ \text{not available} \\ \text{not available} \\ \text{functional insulation, rated insulation voltage } 50 \ \text{V}_{\text{eff}} \\ \\ \text{LEDs , display} \\ \end{array}$
Current range Load Analog voltage output Analog current output Line fault detection Collective error message Transfer characteristics Deviation Resolution/accuracy Temperature effect Reaction time Galvanic isolation Input I/other circuits Output I, II against eachother Output I, II/other circuits Output III/Input II, III Output III/Programming socket Other circuits from each other Indicators/settings Display elements Control elements Configuration	$^{-20}$ 20 mA $^{<}$ ≤ 550 $^{\circ}$ 0 $^{+}$ 10 V; output resistance 500 $^{\circ}$ (bridge between terminal 7 and 9) 0 $^{+}$ 20 mA or 4 20 mA; load 0 550 $^{\circ}$ (terminals 7 and 8) downscale $^{-}$ 21.5 mA ($^{-}$ 10.75 V) or 2 mA ($^{+}$ 1 V), upscale 21.5 mA ($^{+}$ 10.75 V) Power Rail $^{-}$ $^{+}$ $^{$
Current range Load Analog voltage output Analog current output Line fault detection Collective error message Transfer characteristics Deviation Resolution/accuracy Temperature effect Reaction time Galvanic isolation Input I/other circuits Output I, II against eachother Output I, Il/other circuits Output III/Input II, III Output III/Programming socket Other circuits from each other Indicators/settings Display elements Control elements Configuration	-20 20 mA ≤ 550 Ω 0 ± 10 V; output resistance 500 Ω (bridge between terminal 7 and 9) 0 ± 20 mA or 4 20 mA; load 0 550 Ω (terminals 7 and 8) downscale -21.5 mA (-10.75 V) or 2 mA (1 V), upscale 21.5 mA (10.75 V) Power Rail ≤ ± 0.05 % incl. non-linearity and hysteresis ≤ ± 0.01 %/K 300 850 ms reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V _{eff} reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V _{eff} reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V _{eff} not available not available functional insulation, rated insulation voltage 50 V _{eff} LEDs , display Control panel via operating buttons
Current range Load Analog voltage output Analog current output Line fault detection Collective error message Transfer characteristics Deviation Resolution/accuracy Temperature effect Reaction time Galvanic isolation Input I/other circuits Output I, II against eachother Output I, Il/other circuits Output III/Input II, III Output III/Programming socket Other circuits from each other Indicators/settings Display elements Control elements Configuration Labeling Directive conformity	$^{-20}$ 20 mA $^{<}$ ≤ 550 $^{\circ}$ 0 $^{+}$ 10 V; output resistance 500 $^{\circ}$ (bridge between terminal 7 and 9) 0 $^{+}$ 20 mA or 4 20 mA; load 0 550 $^{\circ}$ (terminals 7 and 8) downscale $^{-}$ 21.5 mA ($^{-}$ 10.75 V) or 2 mA ($^{+}$ 1 V), upscale 21.5 mA ($^{+}$ 10.75 V) Power Rail $^{-}$ $^{+}$ $^{$
Current range Load Analog voltage output Analog current output Line fault detection Collective error message Transfer characteristics Deviation Resolution/accuracy Temperature effect Reaction time Galvanic isolation Input I/other circuits Output I, II against eachother Output I, Il/other circuits Output III/Input II, III Output III/Programming socket Other circuits from each other Indicators/settings Display elements Control elements Configuration	$^{-20}$ 20 mA $^{<}$ ≤ 550 $^{\circ}$ 0 $^{+}$ 10 V; output resistance 500 $^{\circ}$ (bridge between terminal 7 and 9) 0 $^{+}$ 20 mA or 4 20 mA; load 0 550 $^{\circ}$ (terminals 7 and 8) downscale $^{-}$ 21.5 mA ($^{-}$ 10.75 V) or 2 mA ($^{+}$ 1 V), upscale 21.5 mA ($^{+}$ 10.75 V) Power Rail $^{-}$ $^{+}$ $^{$



Low voltage	
Directive 2006/95/EC	EN 61010-1:2010
Conformity	
Electromagnetic compatibility	NE 21:2006
Degree of protection	IEC 60529:2001
Ambient conditions	
Ambient temperature	-20 60 °C (-4 140 °F)
Mechanical specifications	
Degree of protection	IP20
Connection	screw terminals
Mass	approx. 250 g
Dimensions	40 x 119 x 115 mm (1.6 x 4.7 x 4.5 inch) , housing type C3
Mounting	on 35 mm DIN mounting rail acc. to EN 60715:2001
International approvals	
UL approval	E223772
General information	
Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com.

Supplementary information

Single or parallel connection of strain gauges with resulting resistance between 116 Ω ... 10 k Ω can be connected and will provide a 4 mA ... 20 mA output and 2 relay outputs as well as an RS 485 interface in the safe area.

The device supports the transmission of measured values via the RS 485 interface. In this mode of operation, input signal range may be transmitted with 26 Bit resolution with up to 31 signal converters connected to the Power Rail UPR-05 or via terminals 19, 20 and 21.

RS 485 communication may be done via the Power Rail when using power feed modules with bus access, e. g. KFD2-EB2.R4A.B or via the terminals 19, 20 and 21 of one module. The device is addressed via keypad and display or with a PC with PACTware and adapter K-ADP-USB.

For additional information, refer to the manual and www.pepperl-fuchs.com.

Accessories

Power feed module KFD2-EB2

The power feed module is used to supply the devices with 24 V DC via the Power Rail. The fuse-protected power feed module can supply up to 150 individual devices depending on the power consumption of the devices. A galvanically isolated mechanical contact uses the Power Rail to transmit collective error messages.

Power Rail UPR-05

The Power Rail UPR-05 is a complete unit consisting of the electrical inset and an aluminium profile rail 35 mm x 15 mm. To make electrical contact, the devices are simply engaged.

Profile Rail K-DUCT with Power Rail

The profile rail K-DUCT is an aluminum profile rail with Power Rail insert and two integral cable ducts for system and field cables. Due to this assembly no additional cable guides are necessary.



Power Rail and Profile Rail must not be fed via the device terminals of the individual devices!