

How to replace IPAQ-4L with IPAQ R460

Cross reference list

This document will help you to replace the IPAQ-4L with the alternative product IPAQ R460. The product can be replaced according to the list below.

IPAQ-4L, 24 VDC → IPAQ R460

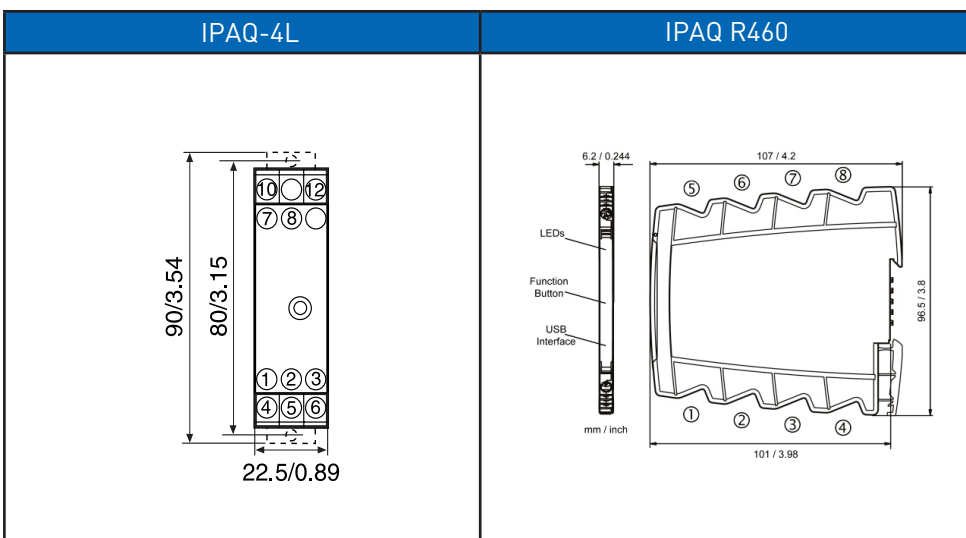
IPAQ-4L, 230 VAC → IPAQ R460 + External Power Supply 24 VDC (Not INOR scope of delivery)

Please check your application to secure functionality.

How to configure the transmitter

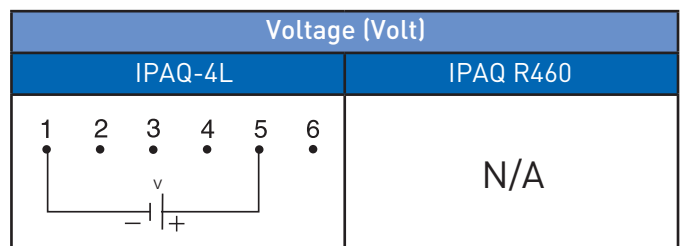
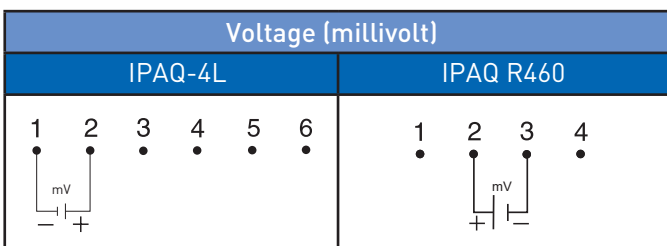
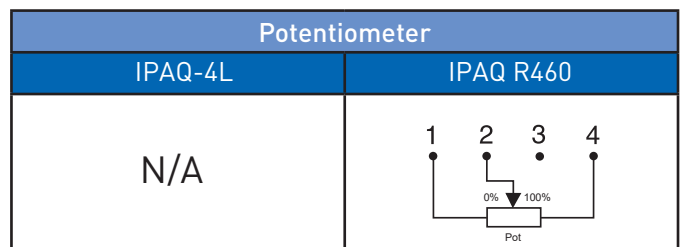
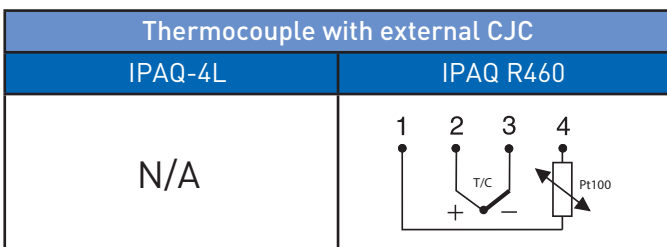
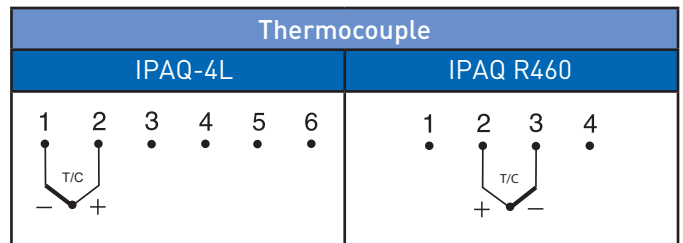
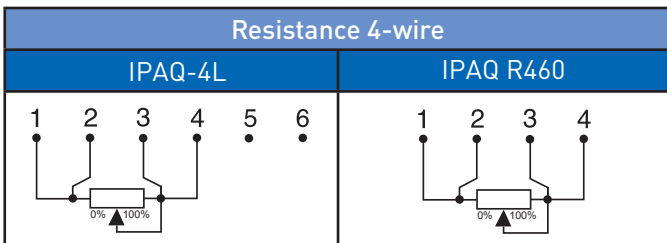
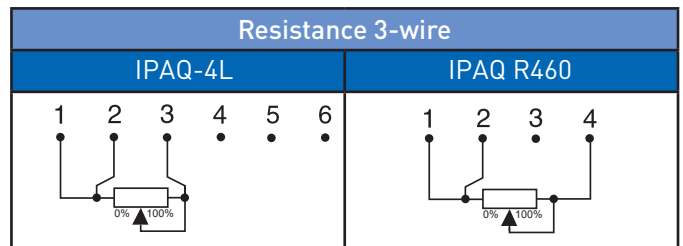
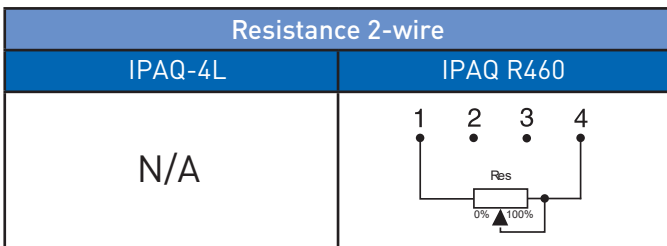
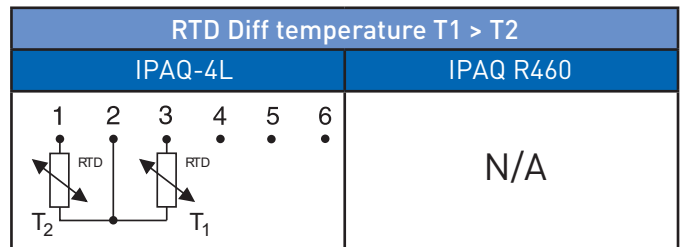
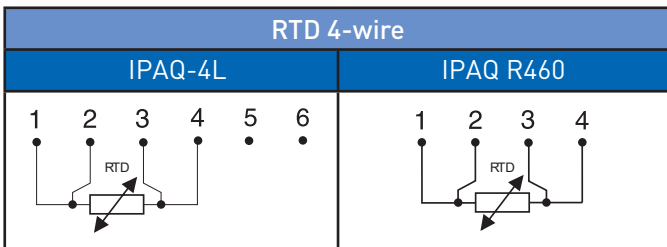
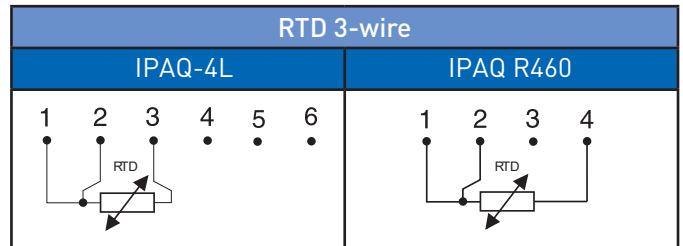
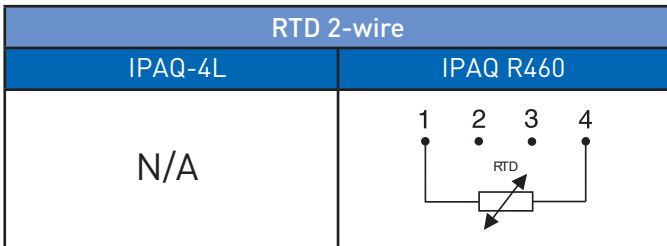
Configuration	
IPAQ-4L	IPAQ R460
PC software ConSoft/IPRO and USB-Interface ICON-X	DIP switches (only a limited number of sensors and ranges). Or via PC software INOR-Set and INOR-Set USB-Interface.

Input and Output terminals



IPAQ-4L and IPAQ R460 Connection diagram

Input Connections



Current (mA)	
IPAQ-4L	IPAQ R460
	N/A

Output Connections

Current (mA)	
IPAQ-4L	IPAQ R460

Voltage (Volt)	
IPAQ-4L	IPAQ R460

Power Supply

Power Supply	
IPAQ-4L	IPAQ R460

Comparison of how to configure IPAQ-4L and IPAQ R460

Measurement range

INPUT

Sensor type: Pt100 ①

Sensor connection: 3-wire ②

Measuring range: -50 ... +150 °C

③ ④

OUTPUT

Output signal: 4 ... 20 mA ⑤

Characteristics: Rising (the beginning of the measuring range corresponds to 4 mA) ⑤

Under/Ovrerrange: 3.8/20.5 mA ⑥

Error monitoring

Sensor error indication: Upscale >21 mA ⑥

Configure IPAQ-4L via PC Software ConSoft/IPRO

① Input Type: Pt100 (α=3850)

③ Input Min (°C): -50

④ Input Max (°C): 150

② Connection: 3 wires

⑥ Sensor Break: Max (>21 mA)

⑤ Output: 4 - 20 mA

⑥ Low limit (mA): 3,8

High limit (mA): 20,5

Graph: Output vs Input. The graph shows a rising characteristic. The output starts at 4 mA (Min) at the input minimum and reaches 20 mA (Max) at the input maximum. The low limit is 3.8 mA and the high limit is 20.5 mA.

Configure IPAQ R460 with INOR-Set

Temp./Univ. Transmitter IPAQ-R460-6MM-Uni

File Device Settings Help

Point of measuring

1 Sensor type Pt 100

2 Connector 3-wire

3 Measuring range -50,0 °C to 150,0 °C

4

5 Output 4 ... 20 mA

5 Characteristics rising

6 On Error 22 mA; upscale

20 mA

12 mA

4 mA

0 mA

-50,0 °C 0 150,0 °C

ON

S1 1 2 3 4 5 6 7 8 9 10

ON

S2 1 2 3 4 5 6 7 8 9 10

Open file Load from device

Save dataset Save into device

Configure IPAQ R460 with DIP switches

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DIP S1 • = on

1	2	3	4	5	Input
•	•	•	•	•	Pt100
•	•	•	•	•	Pt1000
•	•	•	•	•	Ni100
•	•	•	•	•	Resistor
•	•	•	•	•	2-wire
•	•	•	•	•	3-wire
•	•	•	•	•	4-wire

DIP S1 Start Value

6	7	8	9	10	°C	°F	Ω	Poti	mV
•	•	•	•	•	-200	-328	0	0%	-100
•	•	•	•	•	-175	-283	50	1%	-90
•	•	•	•	•	-150	-238	100	2%	-80
•	•	•	•	•	-125	-193	150	3%	-70
•	•	•	•	•	-100	-148	200	4%	-60
•	•	•	•	•	-75	-103	250	5%	-50
•	•	•	•	•	-50	-58	300	6%	-45
•	•	•	•	•	-25	-13	350	7%	-40
•	•	•	•	•	0	32	400	8%	-35
•	•	•	•	•	25	77	450	9%	-30
•	•	•	•	•	50	122	500	10%	-25

DIP S2

7	8	9	10	Output
•	•	•	•	0 ... 20 mA
•	•	•	•	4 ... 20 mA
•	•	•	•	0 ... 10 V
•	•	•	•	0 ... 5 V
•	•	•	•	Characteristic
•	•	•	•	rising
•	•	•	•	falling
•	•	•	•	Error Message
•	•	•	•	signalize
•	•	•	•	not signalize

DIP S2 End Value

1	2	3	4	5	6	°C	°F	Ω	Poti	mV
•	•	•	•	•	•	-150	-238	100	10%	-/-
•	•	•	•	•	•	-125	-193	150	15%	-/-
•	•	•	•	•	•	-100	-148	200	20%	-/-
•	•	•	•	•	•	-75	-103	250	25%	-/-
•	•	•	•	•	•	-50	-58	300	30%	-/-
•	•	•	•	•	•	-25	-13	350	35%	-/-
•	•	•	•	•	•	0	32	400	40%	-/-
•	•	•	•	•	•	25	77	450	45%	-/-
•	•	•	•	•	•	50	122	500	46%	-/-
•	•	•	•	•	•	75	167	550	47%	-/-
•	•	•	•	•	•	100	212	600	48%	100
•	•	•	•	•	•	125	257	650	49%	95
•	•	•	•	•	•	150	302	700	50%	90
•	•	•	•	•	•	175	347	750	51%	85
•	•	•	•	•	•	200	392	800	52%	80
•	•	•	•	•	•	225	437	850	53%	75

Error diagnostic function on output

Characteristic	Error	Output	Underrange	Overrange	Sensor break / invalid setting
rising S2-9 OFF	signalize S2-10 = OFF	0 ... 20 mA 4 ... 20 mA 0 ... 10 V 0 ... 5 V	0 mA 3.8 mA 0 V 0 V	20.5 mA 20.5 mA 10.25 V 5.125 V	22 mA 22 mA 11 V 5.5 V

