Messtechnik

Prozessinstrumentierung

Prüf- und Kalibriertechnik
Measurement

Process Instrumentation

Test and Calibration Equipment



Universal high-isolation 4-wire transmitter



Easy configuration via DIP switch

IINOR

IPAQ R460 is a 4-wire transmitter for resistance thermometers and thermocouples configurable via DIP switches

IPAQ R460 is a programmable 4-wire (separately powered) transmitter. It converts Pt, Ni and TC sensor signals as well as potentiometer, resistor and mV signals to isolated standard signals.

The commissioning function, which can be switched on at the front, generates a reference signal at the output with which the subsequent signal path can be tested and adjusted.

The Power supply can be supplied via the connection terminals or via the In-Rail-Bus connector. The supply voltage and error status are indicated by LEDs on the front of the unit.

Highlights:

- Easy configuration
- Easy commissioning
- 3-port isolation
- Slim design
- Optional in-rail bus mounting
- Safe isolation

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Technical Data

Туре	Rail-mounted	
Input	RTD, Thermocouple, mV and ohm	
Input RTD	Pt100, Pt1000, Ni100	
Input Thermocouple	Type J and K	
Type of Transmitter	Digital	
Output	0-20 mA, 4-20 mA, 0-5 V, 0-10 V	
Measuring range	-200+850 °C, -328+1562 °F	
Galvanic isolation	3 kV AC, 50 Hz, 1 min	
Measuring channels	1 channel	
Sensor connection	2-, 3-, 4-wire	
Power supply	24 V DC, Voltage range 9.631.2 VDC, approx. 0.8 W	
Typical accuracy	Pt100: < 0.1 K + 0.05% meas. val. TC: < 0.3 K + 0.08 % meas. val.	
Configuration	DIP switch	
EMC	EN 61326-1	
Ambient temperature	Operation: -25+70 °C (-13+158 °F), Transport and storage: -40+85 °C (-40+185 °F)	
Design	6.2 mm:n (0.244") bayed case, protection class IP 20, mounting on 35 mm top-hat rail acc. to EN 60715	
Weight	Approx. 70 g	

IPAQ R460 - the alternative product to IPAQ-4L

IPAQ-4L is obsolete. IPAQ R460 is an alternative product and you need to check your application. Have a look at the similarities between IPAQ-4L and IPAQ R460 below.

Parameter	Data for transmitter		
	IPAQ-4L	IPAQ R460	
Input			
Pt sensor	Pt100, Pt1000, PtX	Pt100, Pt1000	
Ni Sensor	Ni100, Ni120, Ni1000	Ni100	
Thermocouples	B, C, E, J, K, L, N, R, S, T, U	J, K	
Current	-150 mA	No	
mV	No	±100 mV / ±1000 mV	
Volt	-1050 V	No	
Resistance	08000 Ohm	05000 Ohm	
Potentiometer	No	10050 k0hm	
KT and KTY Temperature Sensors	No	No	
RTD connections	3-, 4-wire	2-, 3-, 4-wire	
Cold Junction Compensation (CJC int.) error	±0.5 °C	< 1.5 K	
Adjustments			
All inputs	Any value within range limits	Fixed values with DIP-switches	
Minimum span Pt100, Ni100	10 °C	25 °C	
Minimum span Thermocouple	2 mV	50 °C	
Output			
Current (straight, reversed)	0/420 mA, Custom	0/420 mA	
Voltage (straight, reversed)	0/210 V, Custom	05/10 V	
Isolation In - Out - Power supply	4000 VAC, 1 min	3000 VAC, 1 min	
Power Supply	2030 VDC or 90250 VAC	24 VDC (9.6 V31.2 V DC)	
Configuration	PC	DIP switches	
Teach-In Function for measuring range limits	No	Yes	
Sensor error correction	Yes	Yes (Teach-In Function)	
Ambient temperature, operation	-20 to +70 °C	-25 to +70 °C	
Response time T99	~ 0.8 s	250 ms	
Dimensions (wxhxl)	22,5x99x82	6,2x107x96,5	