

Data Sheet | Item Number: 750-464

2/4-channel analog input; Resistance measurement; Adjustable

<https://www.wago.com/750-464>

This analog input module directly connects to Pt or Ni resistance sensors and potentiometers.

It can be operated as a 2-channel (2- and 3-wire) or 4-channel (2-wire) module.

The module automatically linearizes the entire temperature range. A sensor error (short circuit, line break or measurement range overflow) is indicated by a red LED.

The module can be configured via WAGO-I/O-CHECK or GSD files.

It features multiple setting options and high accuracy.

Technical data

Number of analog inputs	4
Total number of channels (module)	4
Signal type	Resistance measurement Potentiometer positions
Signal type (configurable)	Yes
Sensor connection	4 x (2-wire); 2 x (3-wire)
Data width	4 (2) x 16-bit data; 4 (2) x 8-bit control/status (optional)
Resolution (over entire range)	0.1 °C
Conversion time (typ.)	320 ms
Measurement error (25 °C)	≤ 1 K within the entire temperature range, ≤ 0.5 K within the temperature range (-30 ... +120 °C, Pt 1000)
Temperature coefficient	≤ 20 ppm/K
Measuring current (typ.)	≤ 350 µA
Measurement repetition rate (standard)	1.1 s
Measurement repetition rate (2-channel/2-conductor)	0.63 s
Response time (max.)	4 s
Sensor types	Pt100; Configurable: Pt200, Pt500, Pt1000, Ni100, Ni120, Ni1000; Potentiometer (2-channel operation only): 10R ... 1k2, 10R ... 5k0
Temperature range	-200 ... +850 °C (Pt100), -60 ... +300 °C (Ni 100, Ni 1000), -60 ... +250 °C (Ni 1000 TK5000), -80 ... +260 °C (Ni 120)
Configuration options	WAGO-I/O-CHECK CODESYS Library e!COCKPIT
Supply voltage (system)	5 VDC; via data contacts
Current consumption (5 V system supply)	50 mA
Supply voltage (field)	24 VDC (-25 ... +30 %); via power jumper contacts (power supply via blade contact; transmission (supply voltage field side only) via spring contact)
Isolation	500 V system/field
Indicators	LED (A, B, E, F) green: Function AI 1 ... AI 4; LED (C, D, G, H) red: Error AI 1 ... AI 4
Number of incoming power jumper contacts	2
Number of outgoing power jumper contacts	2
Current carrying capacity (power jumper contacts)	10 A

Connection data

Connection technology: inputs/outputs	8 x CAGE CLAMP®
Connection type 1	Inputs/outputs
Solid conductor	0.08 ... 2.5 mm ² / 28 ... 14 AWG
Fine-stranded conductor	0.08 ... 2.5 mm ² / 28 ... 14 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches

Data Sheet | Item Number: 750-464<https://www.wago.com/750-464>**Physical data**

Width	12 mm / 0.472 inches
Height	100 mm / 3.937 inches
Depth	67.8 mm / 2.669 inches
Depth from upper-edge of DIN-rail	60.6 mm / 2.386 inches

Mechanical data

Mounting type	DIN-35 rail
---------------	-------------

Material data

Color	light gray
Housing material	Polycarbonate; polyamide 6.6
Fire load	0.967 MJ
Weight	49.7 g
Conformity marking	CE

Subject to changes. Please also observe the further product documentation!

Current addresses can be found at: www.wago.com



SCATTERGOOD & JOHNSON LTD

ELECTRICAL ENGINEERING & FLUID CONTROL DISTRIBUTORS

Est.1899

At Scattergood & Johnson Ltd, we pride ourselves on being a technical distributor to specialist industries.

Working with a range of quality product manufacturers across a number of specialist markets, we are not your average 'box shifter' - we are your technical and supply chain partner.

We fully support every product we sell - for free! Our internal team and external sales engineers can answer any product or application question, no matter the complexity.

Backing up this technical ability is a range of 50,000+ products available from stock for nationwide next day delivery (same day if required!), or you can collect what you need from any of our trade counters around the UK.

Select your specialist interest below to learn more about how we can help.



Online, In Branch and On the Road - Scattergood & Johnson Ltd, there when you need us.

www.scatts.co.uk