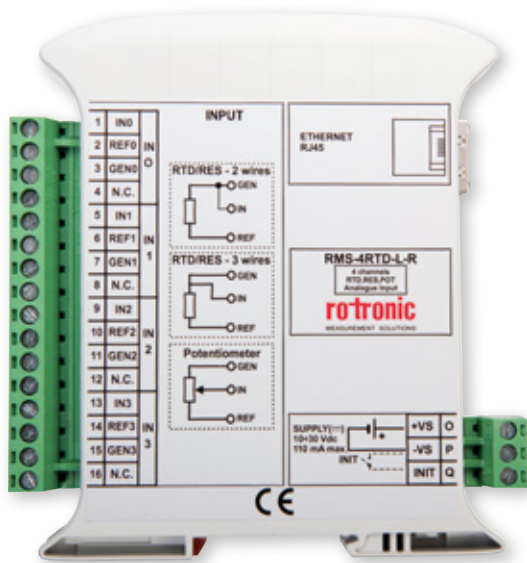# RMS-4RTD-L-R

ADVANTAGES

- 4 isolated input channels
- Input for PT100 & PT1000
- Programmable via the RMS software
- Signal LED

APPLICATIONS

- Monitoring / Process control
- Building automation
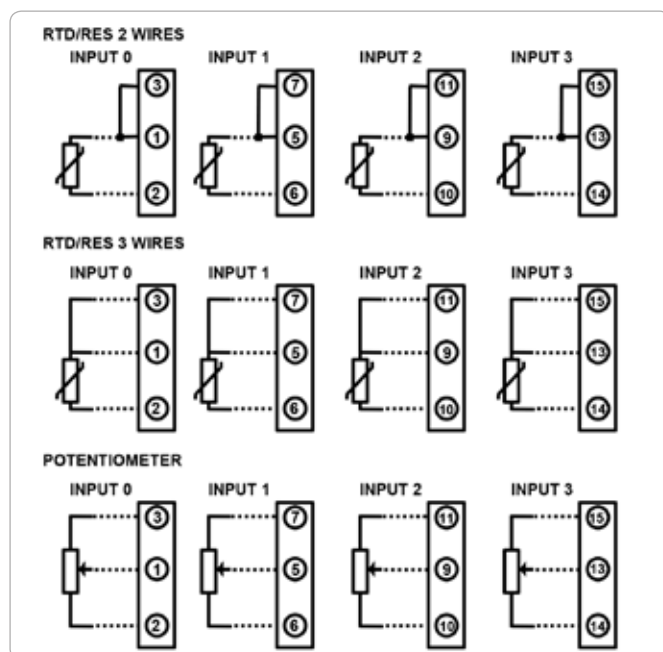- Industrial automation

TECHNICAL INFORMATION

RMS analogue to digital converter with 4 inputs

The 4-input analogue to digital converter was developed to implement all temperature sensors in the digital world of RMS. The 4 inputs offer the flexibility of using a modern system with one of the newest and most flexible monitoring systems on the market today.
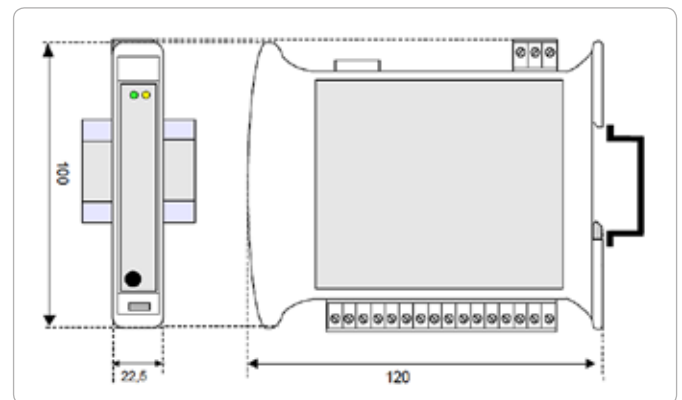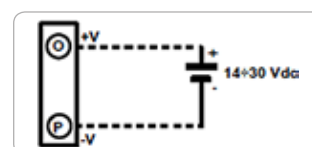
Attention

Function only with RMS-Converter-XXX.

Analog inputs

Dimensions

Power supply

www.rotronic.com   A PST Company (www.processsensing.com)

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MEASUREMENT SOLUTIONS

TECHNICAL INFORMATION

Light signals

LED	Color	State	Description
PWR	Green	On	Device powered
		Off	Device not powered
		Flashing	Watchdog alarm
STS	Yellow	Off	Device in RUN mode
		Flashing	Device in INIT mode

Input type

RTD 2/3-wire	Min.	Max.
PT100	-200 °C	850 °C
PT1000	-200 °C	200 °C
NI100	-60 °C	180 °C
NI1000	-60 °C	150 °C
RES 2/3-wire		
Low	0 Ω	500 Ω
High	0 Ω	2000 Ω
Potentiometer	20 Ω	50 kΩ

General specifications	
Device type	RMS-4RTD-L-R
Measured parameters	PT100, PT1000, Potentiometer
Memory size	7-day memory with RMS-Extension
Application range	-10..60 °C, 0..90 %RH
Storage conditions	-40..85 °C, 0..90 %RH
Maximum altitude	2000 m ASL
Power supply	14..30 VDC
Device data	
Analog inputs	4 isolated inputs
Input accuracy RTD, resistance, potentiometer	±0.05 %FS
Linearity RTD	±0.1 %FS
Influence line resistance RTD/resistance 3-wire	±0.05 %FS/Ω
RTD field current	0.370 mA
Thermal drift FS	±0.01 %/°C
Start-up time	3 min.
Measurement interval	10 s to 15 min. (dependant on software account)
Interface output	Ethernet RJ-45
Protocol	Modbus TCP
Ethernet cable requirement	Min. Cat. 5, SFTP, max. 100 m
Interface input	Removable screw terminals
Housing / Mechanical parts	
Mounting	DIN rail
Dimensions	100 x 120 x 22.5 mm
Weight	160 g
IP protection	IP20
Installation recommendation	Separated by at least 5 mm
Defaut IP configuration	192.168.1.100

Technical specifications (typical @ 25 °C and normal environment).

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