

RSM PLUG-IN IO Specifications

POWER SUPPLY: RS485 bus powered (12V)

OPERATING TEMPERATURE: -10°C to +55°C

INPUT SIGNALS: 7 x RJ10 plug discrete inputs

- ⑩ Optically Isolated to eliminate ground loops, 50 VDC
- ⑩ 5 – 28VDC input tolerance
- ⑩ Up to 48 VDC operation (external 10K 0.5 W resistor)
- ⑩ Polarity insensitive inputs
- ⑩ Normally Open or Normally Closed operation supported
- ⑩ Internal Jumper to enable single ended usage
- ⑩ 12VDC Power feeding for easy digital sensor installation
- ⑩ Standard RJ10 4P/4C connector

On board Temperature & Humidity Sensor

- ⑩ -10°C to +70°C
- ⑩ ±1°C accuracy
- ⑩ ±5% rH accuracy

4 x RJ10 plug analog inputs

- ⑩ 0-5V input range with common ground between inputs
- ⑩ 12-bit analog to digital converter resolution
- ⑩ Typical accuracy better than 1.5 %
- ⑩ RMS reading is calculated over period of 160ms every 60 seconds.
- ⑩ 12VDC Power feeding for easy sensor installation.
- ⑩ Standard RJ10 4P/4C connector

OUTPUT SIGNALS:

3 x screw terminal discrete outputs

- ⑩ Normally Open or Normally Closed operation
- ⑩ Driving capability up to 0.5A at 48VDC or 1A at 24VDC resistive load
- ⑩ Industrial standard 3-way plug screw terminal connector

DC FAN CONTROL:

Screw terminal DC fan control connector

- ⑩ Could be biased via an isolated power supply, up to 48V
- ⑩ PWM output for fan control
- ⑩ Industrial standard 6-way plug screw terminal connector

INTERFACE:

RS485

Two standard RJ12 6P/6C parallel connectors

Easy daisy-chain connectivity

HARDWARE:

ARM CORTEX-M3 CPU

- ⑩ Typical Power Consumption of <250mW

About Keystone Electronic Solutions

Keystone Electronic Solutions is an electronics research and development company, offering organisations the opportunity to outsource their design and product requirements to a highly skilled team of electronic engineers.

The company's team of experts is able to create new and innovative ways of creating electronic products, making use of the best available technology and maximising efficiencies to substantially reduce manufacturing and implementation costs. Their expertise includes both electronics and IT hardware and software, enabling them to develop a total solution for their clients' product creation, as well as integrating the

resulting product into any existing manufacturing or IT environment.

Founded in 2007 by two Directors, John Eigelaar and Ivan Popov, Keystone provides local support and design updates to clients, resulting in quick turnaround time, cost savings and reduce the time to market.

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