

- ◆ Support PT100, PT1000, Balco 500, NI604, NI1000 RTD Types
- ◆ Protocol MODBUS RTU, ASCII Command
- ◆ Support Isolated Input Channels
- ◆ Fully Photo-Isolation 3750Vrms
- ◆ Wide Supply Voltages (10~30V)
- ◆ Built-in TVS/ESD Protection
- ◆ Burn-Out Auto Detection



Specifications

Communication Protocol	RS485 MODBUS RTU and ASCII Command
Baud Rate (bps)	1200, 2400, 4800, 9600, 19.2K, 38.4K, 115.2K
LED Indication	LED for Power and link status
Isolation Voltage	3000VDC

Span Drift	±20uV/ °C
CMRR	50/60 Hz: 92 dB
Burn-Out	Wire burn-out auto detection
Over Voltage Protection	±60V

Effective Resolution	16-bit
Input Channels	6 channel RTD input (2-wires,3-wires, 4-wires)
Input Type	PT100, PT10000, Balco 500, NI RTD
Input Range	PT100,PT1000, Balco 500, NI604, NI1000
Isolation Voltage	2000V
Sampling Rate	12 Samples / Second
Input Impedance	20M ohm
Accuracy	±0.05% or better
Zero Drift	±0.5uV/ °C

Consumption	0.8 W/Typical
Power Input	+10 ~ +30 VDC
Humidity	5 ~ 95% RH, non-condensing

The diagram illustrates the eDAM-8015 system architecture. A Micro processor (EEPROM) is connected to an RS-485 interface via Data+ and Data- lines. The Micro processor is also connected to an LED indicator and an ADC. The RS-485 interface is connected to the Micro processor. The Power supply is connected to the Micro processor and the Isolated Power. The Isolated Power is connected to the Micro processor and the ADC. The ADC is connected to the Micro processor and the RTD array. The RTD array is connected to the Micro processor and the ADC. The RTD array has multiple channels, including RTD 0+, RTD 0-, AGND, and RTD 5+, RTD 5-, AGND. A Cold Junction is connected to the RTD array. The system is powered by a +5V supply and a VS supply. The Micro processor is connected to the +5V supply. The RS-485 interface is connected to the VS supply. The Power supply is connected to the VS supply. The Isolated Power is connected to the VS supply. The ADC is connected to the VS supply. The RTD array is connected to the VS supply. The system is grounded to a common ground.