



Analog to 4-20mA Current Loop Transmitter





Industrial grade Analog to 4-20 mA current Loop Transmitter is very much useful device to control the valve , VFD , Test systems and sensor output conversion (Voltage to current). They provide accurate current scaling and output current limit functions.

FEATURES

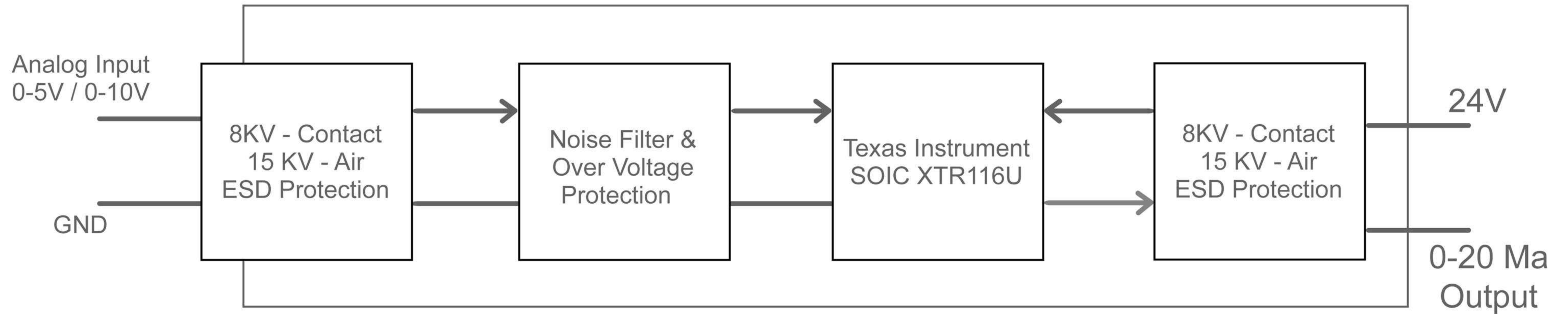
- ESD Protected.
 - EMC / EMI compliance enabled Design.
 - Loop Power driven - no additional power supply required.
 - Rugged and compact Adapter - specifically designed for industrial use.
 - 2-WIRE, 4-20mA CURRENT LOOP TRANSMITTER.
 - XTR116U Texas Instrument chip Inside.
 - LOW QUIESCENT CURRENT: 200 μ A.
 - 5V REGULATOR FOR EXTERNAL CIRCUITS.
 - VREF FOR SENSOR EXCITATION: XTR116: 4.096V.
 - LOW SPAN ERROR: 0.05%.
 - LOW NONLINEARITY ERROR: 0.003%.
 - WIDE LOOP SUPPLY RANGE: 7.5V to 36V.
 - RoHS - Compliant, SOIC package.
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IEC 61000-4-5 (LIGHTNING) SEE IPPM BELOW

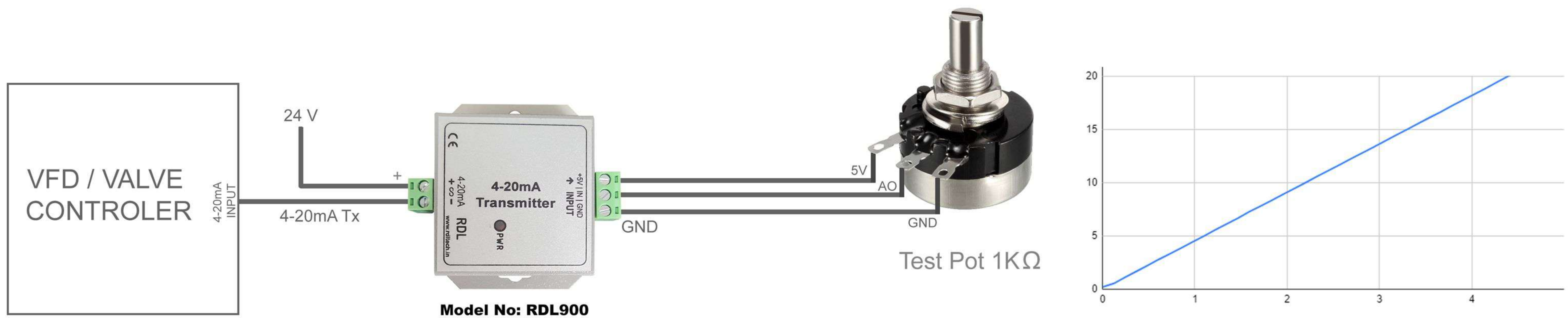
- ESD immunity acc. IEC 61000-4-2.
 - \pm 8 kV contact discharge.
 - \pm 15 kV air discharge.
 - ESD capability according to AEC-Q101.
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APPLICATIONS

- Smart Transmitter
 - Industrial Process Control
 - Test Systems
 - Compatible With Hart Modem
 - Current Amplifier
 - Voltage-To-Current Amplifier
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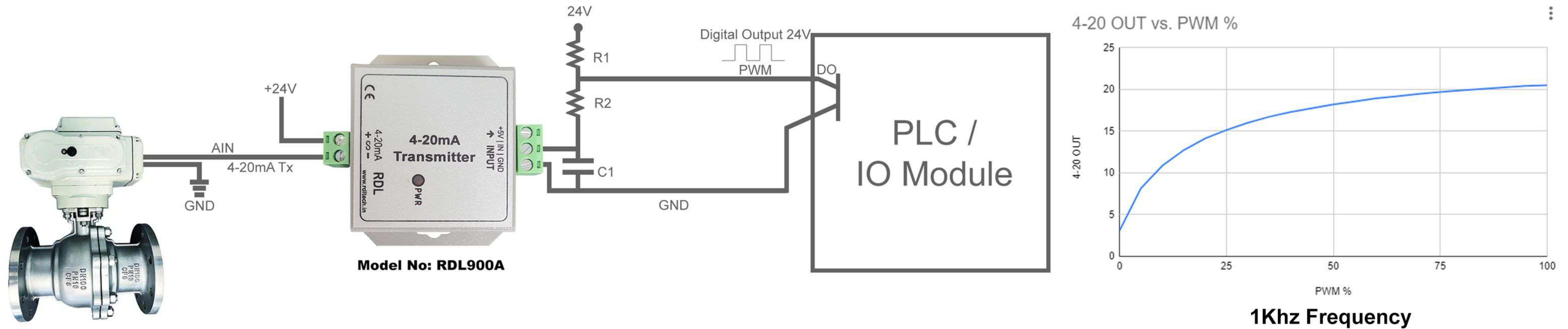


Application Wiring Diagram for Simple 4-20mA Transmitter Tester

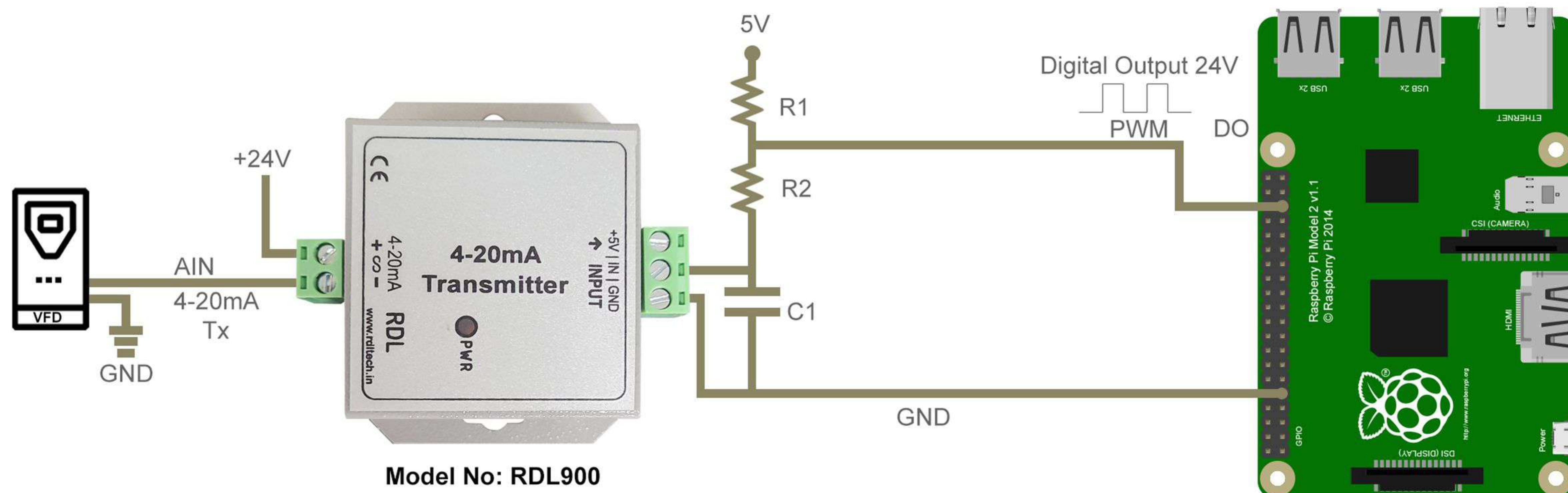




Application Wiring Diagram for 4-20mA Transmission using PWM Technique

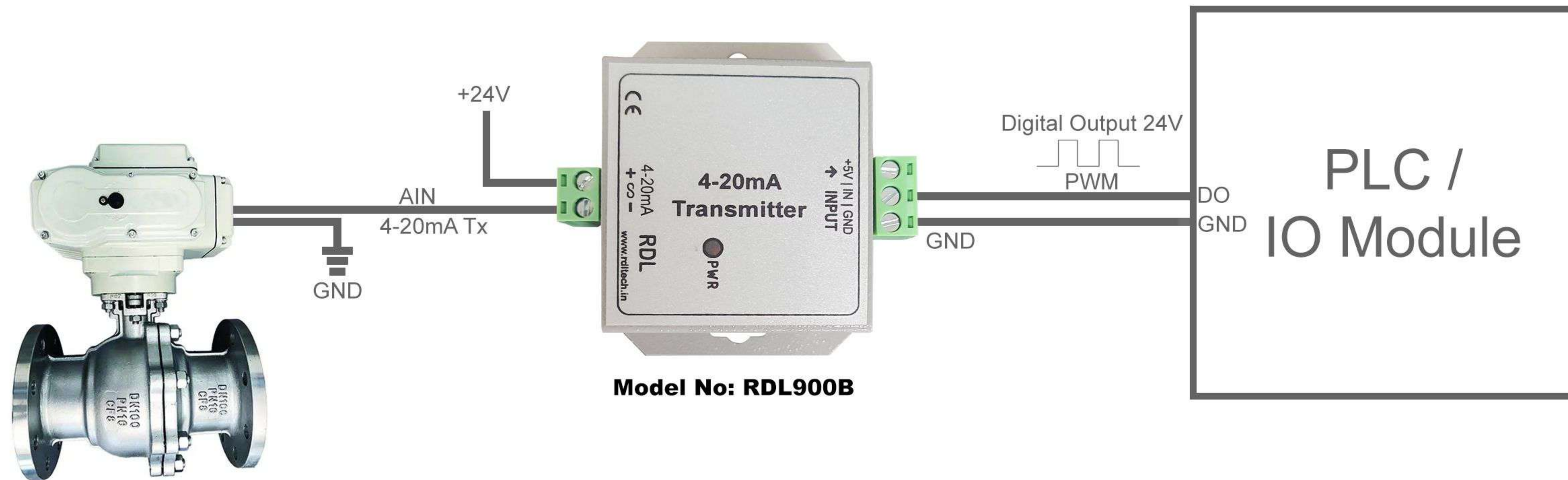


Application Wiring Diagram for 4-20mA Transmission using RPI

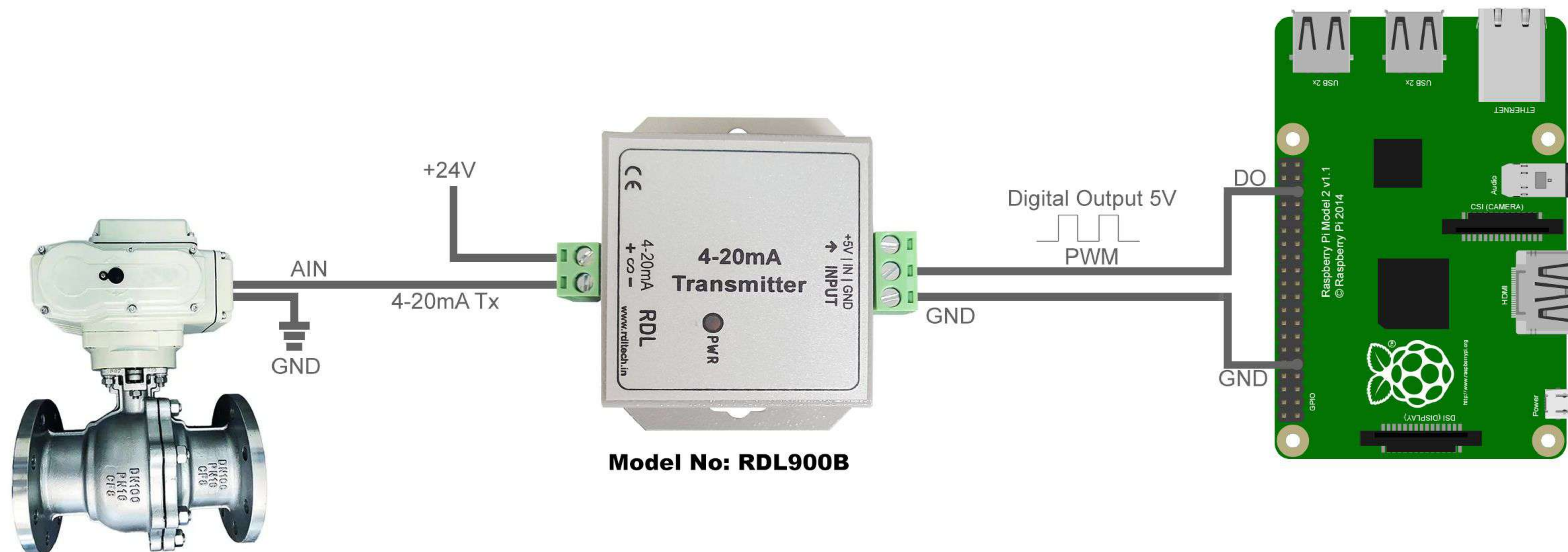




Application Wiring Diagram for Isolated PWM Controlled 4-20mA Transmitter (PLC)

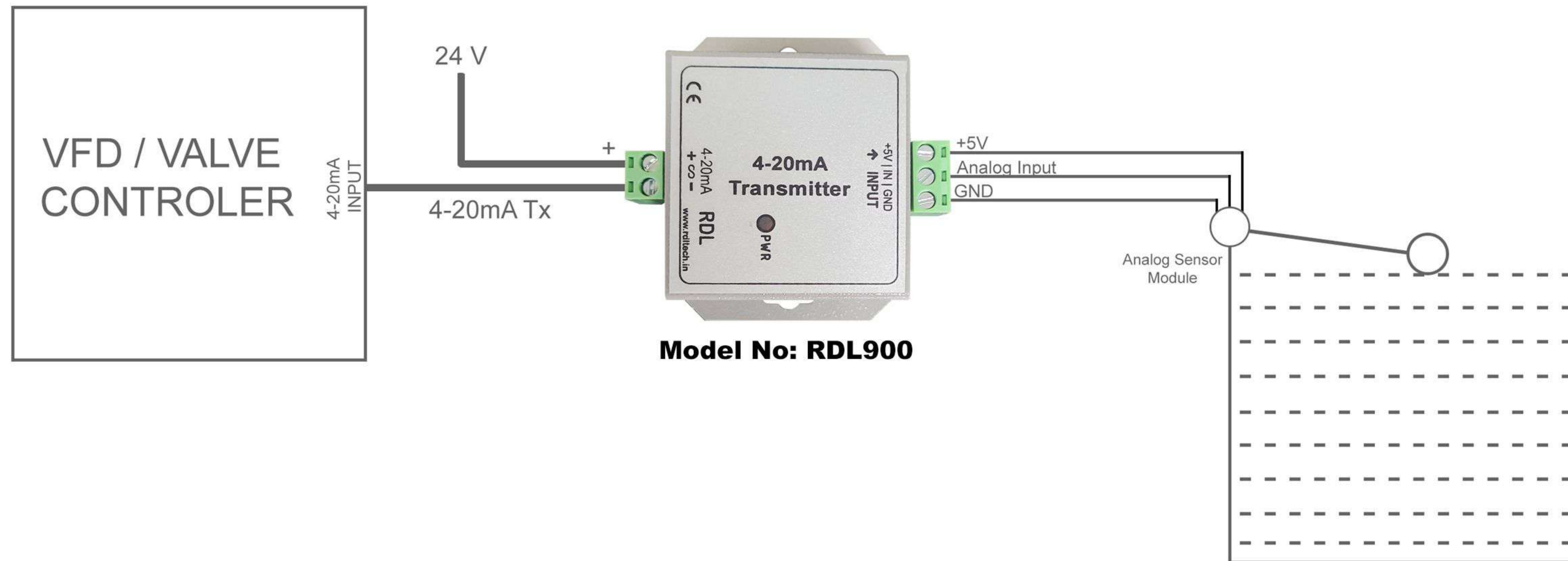


Application Wiring Diagram for Isolated PWM Controlled 4-20mA Transmitter (RPI)





Application Diagram for Water / Fuel Level 4-20mA Conversion



ORDER TABLE

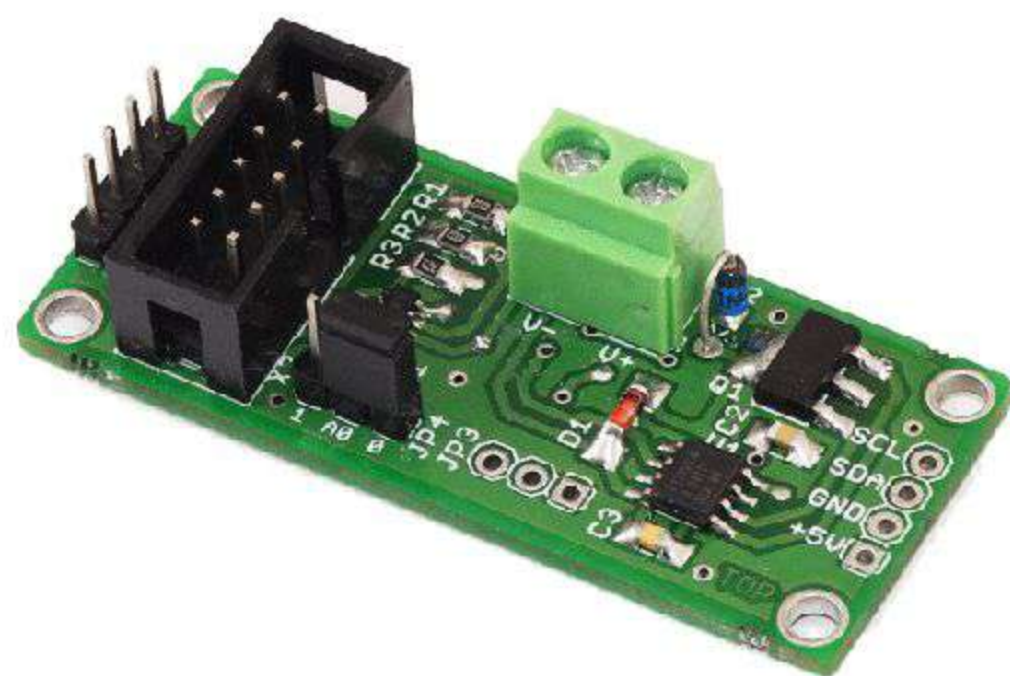
Model No	Input Type
RDL900	Analog - 0-5V Max
RDL900A	Analog - 0-10V Max
RDL900B	Digital (PWM) - 24V 1 Khz Max



RELATED PRODUCTS

4-20mA Current Loop Transmitter XTR116U

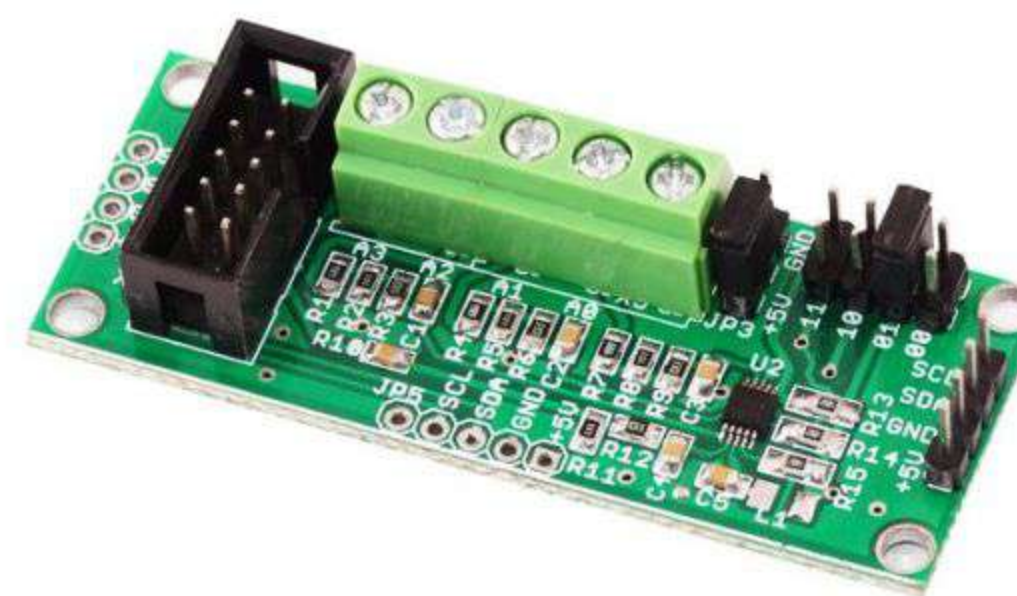
Model No. : RDL625



- Low Quiescent Current: 200 μ A
- 5V regulator for external circuits
- VREF for sensor excitation:XTR116: 4.096V
- Low span error: 0.05%
- Low nonlinearity error: 0.003%
- Wide loop supply range: 7.5V to 36V
- SO-8 Package
- I2C Interface

4 Channel 4-20mA Current Loop Receiver

Model No. : RDL769



- 4x 4-20mA Loop Current Receiver.
- Low current Consumption:150uA
- I2C Interface Communication
- Board Supply Voltage +5v
- 860 Samples per seconds.
- All channel Enabled with Noise Rejection circuit.
- Board Compatible with Standard Legacy PLC's, RPI, Arduino, ESP32, Particle and any control board.

4-20mA Current Loop Transmitter

Model No. : RDL825



- Low quiescent current: 200 μ A
- 5V regulator for external circuits
- VREF for sensor excitation:XTR116:4.096V
- Low span error: 0.05%
- Low nonlinearity error: 0.003%
- Wide loop supply range: 7.5V to 36V
- IP65 Enclosure
- Industrial temperature range, -40°C to +125°C.



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Note:

1. Unless otherwise specified, all parameters in this datasheet were measured at 25°C and 75% humidity.
2. All index testing procedures in this datasheet are based on our company's corporate standards.
3. We offer product customization, OEM and ODM Services; please contact the sales team @ sales@rdltech.in.
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