

◆ **Technical Support**

For Technical support please contact factory along with the unit serial number and revision number displayed on the unit sticker. Also provide information of the PLC if used in application. Usually, including your application also provides a lot of help. If possible e-mail the application to us.

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Quick Start Manual

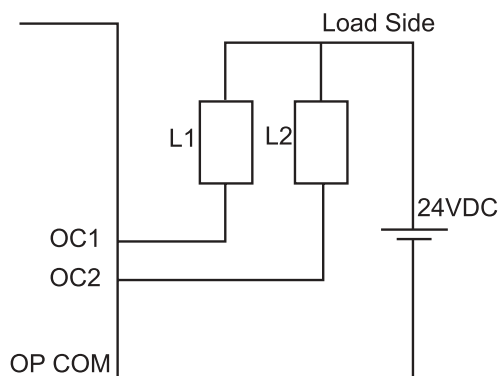
For EAGLE-0201-0302-S



Product Code: EAGLE-0201-0302-S

Doc. No.: QM/EGL-0201-0302-S-0406
 Rev. No.: 2

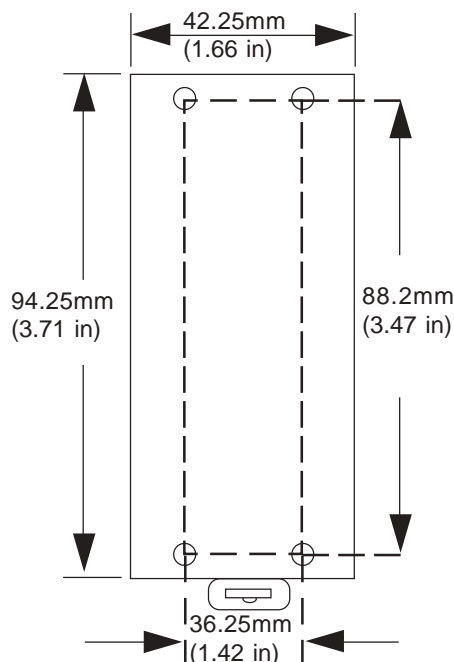
Digital Output Connection:



L1 and L2 can be DC load or relay load (max. 50mA sink capacity).

◆ **Panel Mounting**

The EAGLE-0201-0302-S may be installed by either securing directly to the mounting surface using a mounting plate or by mounting to a DIN rail. To install:
 1. Determine your spacing requirements.



Thank you for purchasing our Eagle Series product - EAGLE-0201-0302-S. This manual gives you a quick overview of the Eagle model and its software.

Read this manual thoroughly before installing and operating the unit.

This document is based on information available at the time of its publication and may not cover all the details or variations in hardware or software. Renu Electronics reserve the right to update information in this publication without prior notice.

IMPORTANT

It is assumed that the user is well acquainted with Windows based software usage, in general. Never use EAGLE unit to perform emergency stop applications. It is advised that separate switches be used outside for ANY emergency stops.

Any mechanical or electrical modification to this unit will void all warranties.

◆ How do I start?

User should follow the given sequence to configure and use EAGLE-0201-0302-S unit:

1. Install Eagle Special Software.
2. Create a Eagle application using Eagle Special software.
3. Connect IBM cable.
4. Download application using Eagle Special Software. Eagle cannot communicate with MASTER till the required driver is downloaded to the unit.
5. Now Eagle is ready for application.

◆ How to install Eagle Special Software?

System requirements for installing Software on your PC:

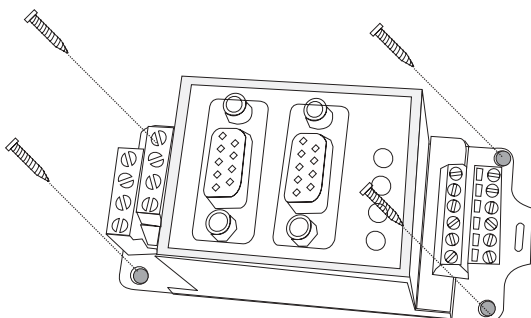
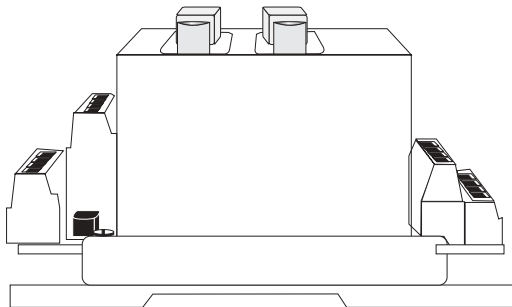
Windows Version	: Microsoft Windows 3.1 or higher
Processor	: 386 or higher
DOS Version	: 5.0 or higher
Hard disk Space	: 3 MB or more
Serial Mouse	: Required
RAM	: 2 MB or more
Display resolution	: 800 x 600 (VGA) or better
Display colors	: 16 colors or more

To install Eagle Special software:

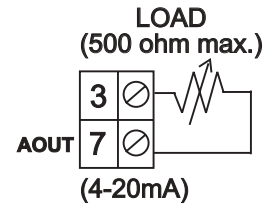
Insert CD in the drive. Copy the file "Eagle0201_Special" and run "Instegl.exe" file.

Please follow the instructions given in the pdf ("How to use Eagle Special Software.pdf") provided with setup software CD.

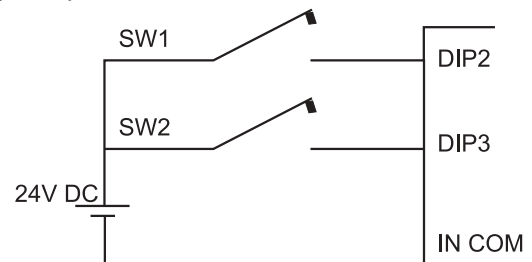
2. For mounting plate installation:
 - a. Drill holes into your mounting surface (#36 drill recommended).
 - b. Align the eagle to the mounting plate and snap the unit into place.
 - c. Fasten the mounting plate to your surface with four screws.



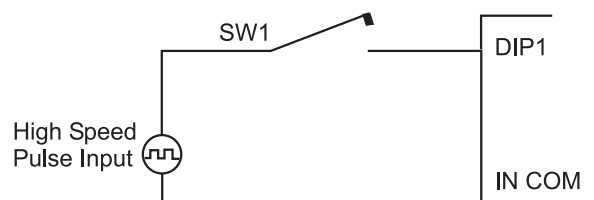
Analog Output Connection:



Digital Inputs:



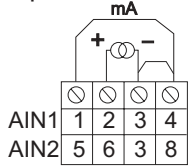
High Speed Digital Input:



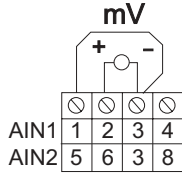
◆ **Wiring Diagrams:**

Analog Inputs:

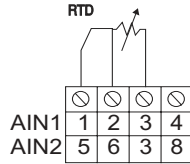
1. Current Input Connection:



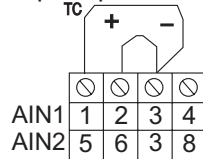
2. Voltage Input Connections:



3. RTD Input Connection:

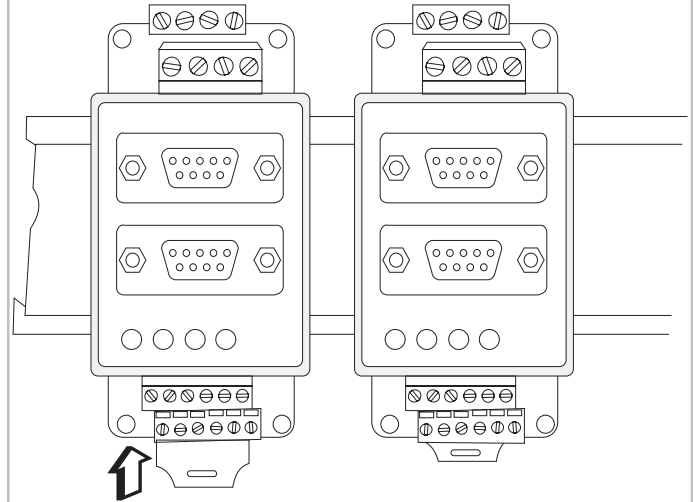


4. Thermocouple Input Connection



3. For DIN rail installation:

- a. Mount the DIN rail to your mounting surface.
- b. Align the eagle to the mounting plate and snap the unit into place.
- c. Hook the top slot of the mounting plate over the DIN rail.
- d. While pressing the unit against the rail, snap the eagle into place.



◆ **Communication Parameters And Modbus Tag Defination**

Unit supports standard Modbus as well as Renu special driver with Master devices.

When Prizm unit is used as MODBUS MASTER device with Eagle unit, with Renu special driver, there are fixed data register mapping corresponding to the Modbus tags of EAGLE-0201-0302-S.

Driver: Modbus Driver
Baud Rate: 9.6K or 19.2K (Software Configurable)
Stop Bit: 1
Parity: Odd
Station ID: 1 to 31 (Software Configurable)

Driver: Renu Special Eagle Driver
Baud Rate: 57.6K
Stop Bit: 1
Parity: Odd
Station ID: 1 to 31 (Software Configurable)

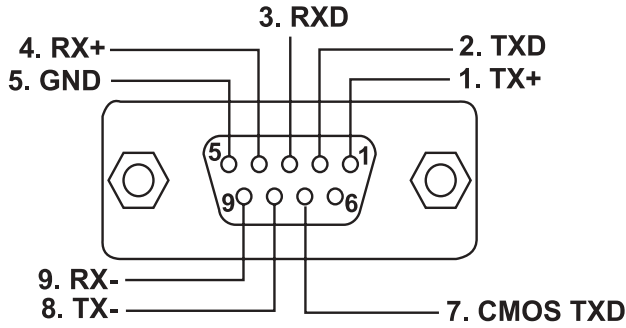
Mapping of EAGLE-0201-0302-S Holding Register to Data Register for COM1 of Prizm unit in case of Renu special driver:

No	Data Register	Holding Register of Eagle	Description	Type
1	D0030	400011	Analog Input 1	R
2	D0031	400012	Analog Input 2	R
3	D0032	400013	Rate	R
4	D0033	400014	Total Lower word	R
5	D0034	400015	Total Higher word	R
6	D0035_00	400016_00	Digital Input 2	R
7	D0035_01	400016_01	Digital Input 3	R
8	D0049	402002	Analog Output1	R / W
9	D0050_00	402003_00	Digital Output1	R / W
10	D0050_01	402003_01	Digital Output2	R / W
11	D0051	402004	Normalizing factor for High Speed Input	R / W

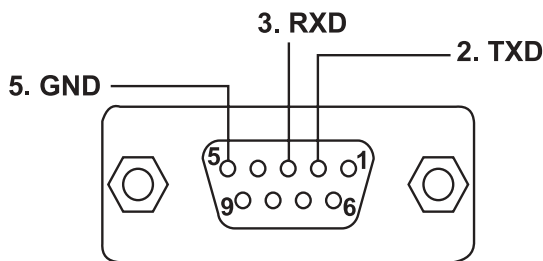
R: Read Only
R/W: Read and write

◆ **Port Details:**

For PLC Port:
(DB9 FEMALE)



For IBM Port:
(DB9 FEMALE)



Note:

If Prizm unit is configured as standard Modbus Master, then use only Holding register in the application.

When Prizm is configured as Modbus Master with Renu Electronics Special Eagle Driver, use only Data Registers in the application.

Mapping of EAGLE-0201-0302-S Holding Register to Data Register for COM2 in case of Renu Special Eagle Driver:

No	Data Register	Holding Register of Eagle	Description	Type
1	D0060	400011	Analog Input 1	R
2	D0061	400012	Analog Input 2	R
3	D0062	400013	Rate	R
4	D0063	400014	Total Lower word	R
5	D0064	400015	Total Higher word	R
6	D0065_00	400016_00	Digital Input 2	R
7	D0065_01	400016_01	Digital Input 3	R
8	D0080	402002	Analog Output1	R / W
9	D0081_00	402003_00	Digital Output1	R / W
10	D0081_01	402003_01	Digital Output2	R / W
11	D0082	402004	Normalizing factor for High Speed Input	R / W

R: Read Only
R/W: Read and write

◆ **What is EAGLE-0201-0302-S?**

EAGLE-0201-0302-S is a combination of Analog and Digital I/Os. It supports modbus slave protocol. Firmware can be downloaded from IBM port. (At factory only).

EAGLE-0201-0302-S requires "E0201_SP" software to configure analog I/P & O/Ps. It has two universal analog I/Ps, one 4-20 mA current O/P, three digital I/Ps [out of which one is high speed I/P (5KHz)] & two OC digital O/Ps.

Analog & digital sections are isolated from each other internally & both are isolated from external power supply as well.

Specifications of EAGLE-0201-0302-S:

Power: 24VDC +/- 10%, 2 W maximum
 Digital Inputs: 2 Inputs (24VDC)
 DIP1 is High Speed Digital I/P.
 Digital Outputs: 2 Outputs(50mA Sink capacity)
 Analog Inputs: 2 Universal Analog Inputs
 Analog Outputs: 1 Output(4-20mA, 500 Ohm max)
 Communication: Two. IBM Port (RS232) and PLC Port (RS232/RS485).
 I/O Terminals: Non-pluggable terminals
 Temperature: Operating: 0 ° to 60 ° C
 Storage: -20 ° to +80 ° C
 Humidity: 10% to 90% (Non condensing)
 Dimensions: 94 x 42 x 47 (mm)